### A COMPUTER PROGRAM

### TO DETERMINE THE

POSSIBLE DAILY

RELEASE WINDOW FOR

**SKY TARGET** 

### **EXPERIMENTS**

CASE FILE COPY



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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### RELEASE WINDOW FOR

SKY TARGET

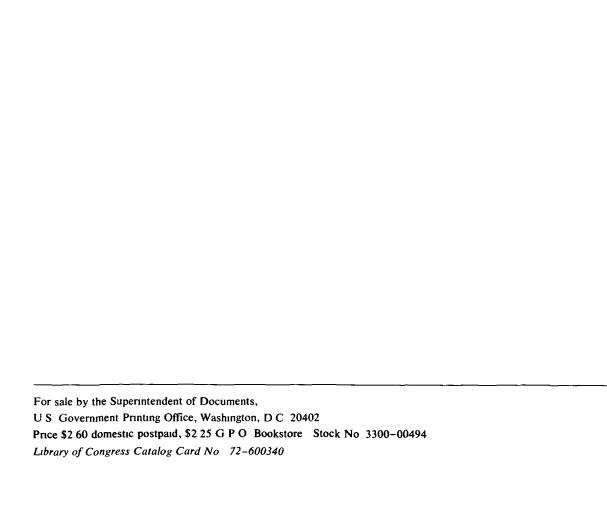
### **EXPERIMENTS**

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The National Aeronautics and Space Administration (NASA) and the Max Planck Institute for Extraterrestrial Physics (MPE), Munich, Germany, conducted a cooperative experiment involving the release and study of a barium cloud at a 31 500-km altitude near the equatorial plane. The release was made near local magnetic midnight on September 21, 1971.

This publication is based upon the computer program that was designed to meet the viewing requirements of the barium cloud experiment. The computer program can be adapted to similar sky target experiments if the launch requirements are suitably defined. Furthermore, experiment definitions requiring modifications to the existing program can be easily made because of the modular structure of the computer program.

The program was successfully designed with the assistance of C. Marshall Curtis, Edgar R. Everton, David W. Hancock III, Thomas J. Harmon, and Dennis F. Melvin, all of the Applied Mathematics Section, NASA Wallops Station.

N. H. M.

October 1972

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### Contents

	Page
Introduction	1
INPUT/OUTPUT DEFINITION .	2
Program Input	2
Multiple Cases	6
Program Output	8
Program Options	8
Mathematical Analysis	13
Target Illumination	13
Target Elevation	19
Sun and Moon	22
Total Sky Brightness	24
Zodiacal Light and Starlight.	27
Summary	31
References	31
APPENDIX A—COORDINATE TRANSFORMATIONS	33
Geodetic to Geocentric	33
Inertial to Geocentric	36
Geocentric to Inertial	38
Inertial to Topocentric	38
Inertial to Ecliptic	39
APPENDIX B-PROGRAM FLOWCHARTS	41
APPENDIX C-COMPUTER PRINTOUT	*

<sup>\*</sup> Located inside of back cover on microfiche

This computer program is designed to determine the daily release window for sky target experiments. Factors considered in the program are—

- (1) Target illumination by the Sun at release time and during the tracking period
- (2) Look angle elevation above local horizon from each tracking station to the target
- (3) Solar depression angle from the local horizon of each tracking station during the experimental period after target release
- (4) Lunar depression angle from the local horizon of each tracking station during the experimental period after target release
- (5) Total sky background brightness (i.e., light due to airglow, zodiacal light, and integrated starlight) as seen from each tracking station while viewing the target

The computer program defines a favorable time period for release of a sky target within a particular calendar time frame. The given output is not the favorable time period for vehicle launch. Launch time and payload release time must be considered separately.

Program output is produced in both graphic and data form Output data can be plotted for a single calendar month or year. The numerical values used to generate the plots are furnished to permit a more detailed review of the computed daily release windows. A printout of the daily release window data computed for each constraint and applied to each tracking station is also furnished. Appendixes B and C show the logic and the program statements used in the program. (App. C may be found on microfiche on the inside back cover.) This output enables one to determine which program constraint and which tracking station closes the release window.

### Input/Output Definition

#### PROGRAM INPUT

Card input required for the program is divided into two categories: computer system control cards and data cards. The system control cards, which assign the input/output (i/o) files to magnetic tape or disk, are used with the program options for program execution. Table 1 is a list of the necessary control cards. (See ref. 1 for additional information on the system control cards.) Those required for a given computer job are in the section of this document on program options.

Data cards contain the input data required for defining the program parameters. Each input parameter must be recorded in a specific manner on a data card. Nominal values for the input parameters are assigned to reduce the number of data cards required for program execution. Table 2 shows the breakdown of each input variable for a particular sky target experiment, as well as its nominal value and data-card location.

TABLE 1.—Computer System Control Cards

Column	Columns	Columns	Columns	Remarks
1	2 to 7	8 to 11	16-	
\$	blank	TAPE	01,X1D,,,,SAVE1-556BPI	Required when plot tape is to be generated
\$	blank	DISC	07,X2R,5R	Required when data generated on file 07 are not to be saved
\$	blank	TAPE	07,X2D,,,,SAVE7	Required when file 07 data are to be saved for further use
\$	blank	TAPE	07,X2D,,NNNNª	Required when previously generated file 07 data are program input
\$	blank	DISC	09,X3R,2R	Required when data generated on file 09 are not to be saved
\$	blank	TAPE	09,X3D,,,,SAVE9	Required when file 09 data are to be saved for further use
\$	blank	TAPE	09,X3D,,NNNN ª	Required when previously generated file 09 data are program input
\$	blank	TAPE	11,X4D,,,,SAVE11	Required when file 11 data are to be saved for further use
\$	blank	TAPE	11,X4D,,NNNN a	Required when previously generated file 11 data are program input
\$	blank	DISC	11,X4R,5L	Required for multiple cases where magnetic tape is not specified.
\$	blank	DISC	12,X5R,5L	Required for computing stacked cases
\$	blank	DISC	13,X6R,5L	Required when performing calculations (ICALC=0)

a Insert appropriate 4-digit tape number in place of NNNN

TABLE 2.—Program Input Parameters

A B	2 to 80 01 03, 04 06, 07 09 to 12 14, 15 17, 18	CARD CODE KMONTH KDAY	N/A TBA	N/A	Alphanumeric	Job title card
В	03, 04 06, 07 09 to 12 14, 15	KMONTH KDAY		I	(A1,13A6,A1)	
В	06, 07 09 to 12 14, 15	KDAY	TDA	N/A	Alphanumeric (A1)	Code value for data input card "A" - start/stop date
В	09 to 12 14, 15	1	TBA	N/A	Integer (I2)	Starting month number
В	14, 15	LVEAD	TBA	N/A	Integer (12)	Starting day number
В	,	KYEAR	TBA	N/A	Integer (I4)	Starting year number
В	17 10	LMONTH	TBA	N/A	Integer (I2)	Final month number
В	17, 10	LDAY	TBA	N/A	Integer (I2)	Final day number
	20 to 23	LYEAR	TBA	N/A	Integer (I4)	Final year number
I	01	CARD CODE	TBA	N/A	Alphanumeric (A1)	Start/stop date for printed and/or plotted output
1	03,04	KMO	ТВА	N/A	Integer (I2)	Starting month number
i	06, 07	KDA	ТВА	N/A	Integer (I2)	Starting day number
	09 to 12	KYR	TBA	N/A	Integer (I4)	Starting year number
	14, 15	LMO	ТВА	N/A	Integer (I2)	Final month number
	17, 18	LDA	TBA	N/A	Integer (I2)	Final day number
	20 to 23	LYR	TBA	N/A	Integer (I4)	Final year number
C	01	CARD CODE	TBA	N/A	Alphanumeric (A1)	Program options card a
	04	ICALC	ТВА	N/A	Integer (I1)	Option on whether to skip program calculations and manipulate pre- viously generated tapes or to do program calculations
	06	IPRT7	TBA	N/A	Integer (I1)	Option to either print hard copy of file 7 or not
	08	IPRT9	TBA	N/A	Integer (11)	Option to either print hard copy of file 9 or not
	10	IPRT11	TBA	N/A	Integer (11)	Option to either create output file 11 data, use an existing file 11 tape, on not use file 11
ĺ	12	IPLOT	ТВА	N/A	Integer (I1)	Option to create a plot tape for a calendar year or calendar month of no plot tape
D	01	CARD CODE	TBA	N/A	Alphanumeric (A1)	Sky target release point position card
	06 to 15	PHIPDG	тва "	Degrees north	Fixed point (F10 0)	Geodetic latitude of release point
	16 to 25	LAMPDG	ТВА	Degrees east	Fixed point (F10 0)	Longitude of release point
	26 to 35	HEIGHT	TBA	Earth radu	Fixed point (F10 0)	Altitude of release point above Earth surface
E	01	CARD CODE	TBA	N/A	Alphanumeric (A1)	Program brightness and elevation constraints
	06 to 10	RESTR(2)	TBA	Degrees	Fixed point (F5 0)	Minimum look angle elevation from each tracking station to the sky target
ì	11 to 15	RESTR(3)	TBA	Degrees	Fixed point (F5 0)	Maximum depression angle of the Sun to each tracking station
	16 to 20	RESTR(4)	ТВА	Degrees	Fixed point (F5 0)	Maximum depression angle of the Moon to each tracking station
	21 to 25	RESTR(5)	ТВА	Rayleighs	/ Fixed point (F5 0)	Maximum total sky background brightness

TABLE 2. - Program Input Parameters - Continued

Card code	Card columns	Variable name	Nominal value	Input units	Type (format)	Description
	26 to 30	RESTR(6)	TBA	km/sec	Fixed point (F5 0)	Constant longitudinal drift rate of target (Earth relative)
	31 to 35	RESTR(7)	ТВА	Hours	Fixed point (F5 0)	Tracking period from time of release (should be given in multiples of 0.5 hr of time)
F	01	CARD CODE	ТВА	N/A	Alphanumeric (A1)	Stations considered in program
	03, 04	NS	ТВА	N/A	Integer (12)	Number of stations to be used
	06, 07	NOS(1)	TBA	N/A	Integer (12)	Station number 1 b
	09, 10	NOS(2)	TBA	N/A	Integer (12)	Station number 2 b
	12, 13	NOS(3)	TBA	N/A	Integer (12)	Station number 3.b
	15, 16	NOS(4)	ТВА	N/A	Integer (12)	Station number 4 <sup>b</sup>
	18, 19	NOS(5)	TBA	N/A	Integer (I2)	Station number 5 b
	21, 22	NOS(6)	TBA	N/A	Integer (12)	Station number 6 b
	24, 25	NOS(7)	TBA	N/A	Integer (I2)	Station number 7 b
	27, 28	NOS(8)	TBA	N/A	Integer (12)	Station number 8 b
	30, 31	NOS(9)	TBA	N/A	Integer (I2)	Station number 9 b
	33, 34	NOS(10)	TBA	N/A	Integer (12)	Station number 10 b
	36, 37	NOS(11)	ТВА	N/A	Integer (12)	Station number 11 b
	39, 40	NOS(12)	TBA	N/A	Integer (I2)	Station number 12 b
G	01	CARD CODE		N/A	Alphanumeric (3A6)	Tracking station positional data card (one set of tracking station paral eters per card)
	03, 04	N	TBA	N/A	Integer (12)	l
	05, 06	MOVE(N)	TBA	N/A N/A	Integer (12)	Station number (value of NOS(i) defined on "F" card)  Numeric code to determine if tracking station is Earth fixed (= 0 for ground station) or moving with respect to the Earth (= 1 for aircraft station)
	08 to 25	NAME (3,N)	TBA	N/A	Alphanumeric	Name of tracking station
	26 to 35	PHI(N)	TBA	Degrees	Fixed point (F10 0)	
	36 to 45	LAMBDA(N)	TBA	Degrees	Fixed point (F10 0)	
	46 to 55	ALT(N)	TBA	Feet	Fixed point (F10 0)	
Н	01	CARD CODE	ТВА	N/A	Alphanumeric (A1)	Expected position of aircraft station position data card (one set o aircraft position parameters required for each 0.5 hr of expected tracking time after release) b
	03, 04	N	ТВА	N/A	Integer	Aircraft station number (identical value with aircraft station numbe specified in columns 03, 04 of "G" card)
	05,06	JAIR	ТВА	N/A	Integer	Index used to identify the aircraft position with the time period afte release (JAIR = integral value of 10+20× current amount of hour after release)
	08 to 25	PNAME (3, JAIR)	ТВА	N/A	Alphanumeric (3A6)	Name designated for aircraft position for index "JAIR"
	26 to 35	PLAT (JAIR)	ТВА	Degrees	Fixed point (F10 0)	Geodetic latitude of aircraft position for time after release for index value "JAIR"

TABLE 2. - Program Input Parameters - Concluded

Card code	Card columns	Variable name	Nominal value	Input units	Type (format)	Description
	36 to 45	PLON (JAIR)	ТВА	Degrees	Fixed point (F10 0)	Longitude of aircraft position for time atter release for index value "JAIR"
	46 to 55	PALT (JAIR)	TBA	Feet	Fixed point (F10 0)	Altitude of aircraft position above Earth surface for time after release for index value "JAIR"
I	01 02 to 05	CARD CODE	TBA TBA	N/A N/A	Alphanumeric Integer (12)	Final input data card  Case number
	06, 07	IFINAL	ТВА	N/A	Integer (I2)	Code used for last input case, set to "1," otherwise leave blank

N/A=not applicable, TBA=to be assigned.

bStation numbers are numeric codes for input tracking stations. The maximum index (i) for NOS must be the numeric value of NS. Each tracking station used is assigned an integer on "G" card. This card is useful in designating any station.

whose nominal value is specified and neglecting those preset stations not required Additional stations may be read through "G" card with their station number specified here

expected position of aircraft station at time of target release specified with "G" card with  $MOVE(N)\!\!=\!\!01$ 

<sup>&</sup>lt;sup>a</sup>See table 3 for additional description of options described

Each data card, with the exception of the first or title card, contains an alphabetic code in column 1. Not all data cards are required for program execution. They are required only if one or more of the parameters for a particular card are to be changed from their nominal values. The data-card input rules are as follows:

- (1) The title card and the "I" card must be used for any program execution.
- (2) The cards coded "A" through "H" must be inserted (in any order) between the title card and the "I" card.
- (3) If one or more of the parameters required for a given card are to be changed from their nominal values, all parameters required for that input card must be present. A blank numeric field will then be interpreted as zero

Illustrations for three sample input cases are shown in figure 1. In (a), the program will execute using all the preset nominal values for the program. Execution requires only the title card and the "I" card. Case (c) is an example for a change of release point in which given tracking stations and calendar periods are used. An additional tracking station whose position is not preset is added to the input list. A variation of this would be to use only certain nominal-value tracking stations with no additional stations added.

#### **MULTIPLE CASES**

To fully evaluate launch criteria for a given calendar period, variation of certain input parameters must be considered. Several aspects of the vehicle behavior and the target's behavior after its release cannot be accurately predetermined. Therefore, proper analysis of the release window must incorporate the predicted vehicle dispersion area around the nominal release point and all possibilities of speed and direction of the target's motion after release.

The input card deck setup for multiple-case jobs is organized similarly to that for a single-deck setup. Each case must include the title card and the "I" card. For each case, the cards coded "A" through "H" need only be inserted if the parameters for that card are to be different from those of the previous case. (For the first case, the "A" through "H" cards are inserted only if the parameters change from the preset nominal values.)

As stated previously, stacked cases are for use in the analysis of releasepoint dispersion and drift-rate variations. Therefore, the program is designed so that any variation of the following parameters will either yield erroneous results or cause the program to prematurely terminate:

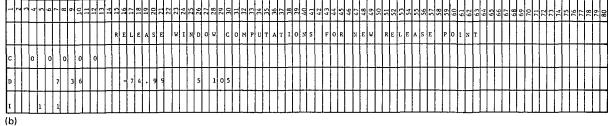
- (1) All parameters defined on cards coded "A," "B," "C," "F," "G," and "H"
- (2) The values for the minimum look angle elevation from each tracking station to the target and the maximum depression angles of the Sun and of the Moon to each tracking station

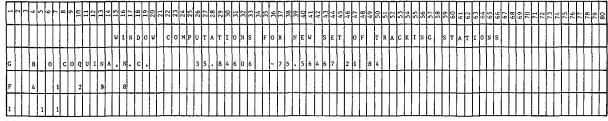
These values must remain constant after being defined in the first input case. An example of multiple case input is shown in figure 2.

Two additional computer system control cards are required for stacked cases. These cards are used to define temporary disk storage files for the calculated data for each case and are listed in table 1

F	12	7	<b>J</b> ,	7	-	۵	0	٤	=	:	1	1	1	4	97	17	1.8	6	ć	-	į	1,	1	į	3 %	9	1	2	23				2	34	35	36	37	ĕ	2	۶	7	,	;			3	46	47	87	67	20	7	22	53	54	25	26	57	28	29	9	61	62	63	- 79	9	99	2	è		3	7	7.5	73	7,	75	76	77	7.8	,	1	٥
ſ	$\prod$				T	Ī		Ī	T	Ī	T			R	E	L	E	A	s	E		,	,	1	N I	D (	0	W	7	С	0	ч	P	U	т	A	Т	1	c	,	2		U	S	,	ŀ	N	G		N	0	R I	М	A	L			I	N I	P	U	т	s																			
I			,	ı	ļ			Ī			Ī													Ī																									-																						Ì										I	

(a)





(c)

FIGURE 1 - Program input samples (a) Release window computations using nominal inputs (b) Release window computations for new release point (c) Release window computations for new set of tracking stations

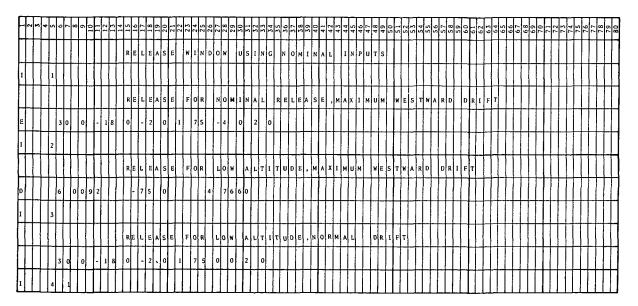


FIGURE 2 — Program input sample for multiple cases

#### PROGRAM OUTPUT

Output generated by this program is recorded on four computer system files. Through the existing program options, the data can be printed and/or plotted. Each of the four files yields different types of data useful for the user's analysis of the release window problem.

File 01 contains the release window data for either a year or a month in the format required by the CalComp Plotter Model 763. These data must be recorded at 556 bpi for the CalComp Plotter.

File 07 (800 bpi) contains the set of daily window times calculated for each constraint and for each tracking station.

File 09 (800 bp1) contains the set of daily release window times that satisfy all constraints for all tracking stations simultaneously. This set of data is the numerical listing of the data points recorded on tape file 01.

File 11 (800 bpi) contains the set of daily release window times calculated on the Sun and Moon constraints for each tracking station.

A sample of the output data generated from files 01, 07, and 09 are shown in figures 3, 4, and 5, respectively. Printed output of file 11 is not available because the purpose of this file is to omit the recalculation of the Sun and Moon constraint data for later program executions. It is anticipated that this program will be executed many times to analyze the variations of release point locations, target drift velocities, and expected target tracking periods using the same tracking stations. The use of file 11 then saves execution time by omitting the calculation of these data.

#### **PROGRAM OPTIONS**

The set of program options provides printed output flexibility and saves execution time by using data previously calculated

Table 3 is a list of program options including the integer value of each option code, the system files used, and the program options exercised. The integer value of each option code is the numerical value used for program input by the "C" card. For each system file required, the appropriate system control card (table 1) must be used. The seven program options in table 3 are

- (1) A perform program calculations.
- (2) B: furnish printed output of file 07 data.
- (3) C: furnish printed output of file 09 data.
- (4) D: input a magnetic tape of file 11 data calculated from previous job.
- (5) E: create a magnetic tape of file 11 data for future jobs.
- (6) F: create a plot tape on file 01 of release window data for a calendar year.
- (7) G: create a plot tape on file 01 of release window data for a calendar month.

The input cards that must be furnished by the program user follow the "LIMITS" card and are the appropriate system control cards as defined in table 1 and the set of data cards with the title card first and the "I" card last.

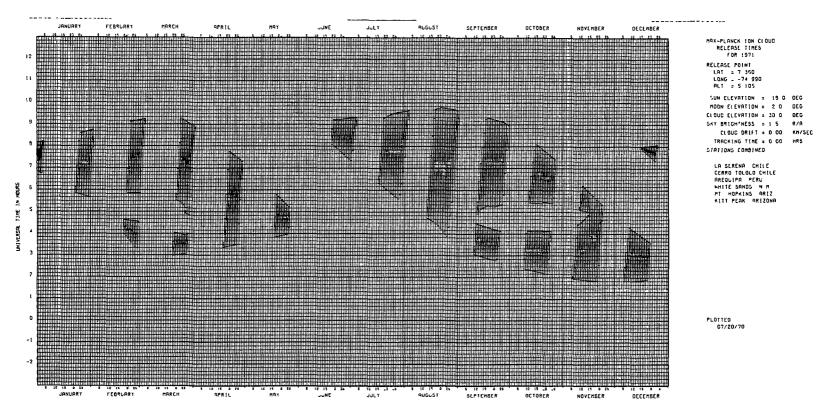


FIGURE 3 — Sample plot from file 01

	**** RELEASE WINDOW	AILV TÎME	INTERVALS PER	CONSTRAINT	PER STATION	****	
DATE CONSTRAINT	STATION	START HR/HIN	STOP HR/HIN	START HR/HIN	STOP HR/MIN	START HR/HIN	STOP HR/MIN
1-AUG-1971 EARTH SHADON	ALL STATIONS	0.0/0	24/ 0		-	-	
	LA SERENA, CHILE CERRO TOLOLO, CHILE	- 0/27 - 0/27	10/5 10/6	23/33 23/32	34/ 4 34/ 6		
	TAREGUIPAT PERUT THITE SANDS, N.M. MT, HOPKINS, ARIZ,	7/37 3/32	9/56 10/47 11/ 7	- 23/48 27/36 27/51	33/55 - 34/48 35/ 8	-	-
	KITT PEAK, ARITONA	3/56	11/ 9	27/55	35/10		
MOON	LA SERENA, CHILE CERRO TOLOLO, CHILE AREQUIPA, PERU	6/53 6/56 6/26	17/ 1 16/59 17/36	31/53 31/56 31/22	41/52 41/49 42/29		
	WHITE SANDS, N.H. "MT, HOPKINS, ARIZ," KITT PEAK, ARIZONA	17/30 - 17/10 17/ 8	±3/10 ≟2/54 ≟2/50	7/ 9 7/29 7/31	21/49 22/ 5 22/ 9		
SKY BRIGHTNESS	LA SERENA, CHILE	ô/ 0	2/0	5/19	9/53	22/30	24/ 0
	CERRO TOLOLO, CHILE AREQUIPA, PERU WHITE SANDS, N.M.	Ö/ 0 0/ 0 0/ 0	1/57 3/ 9 1/29	5/21 5/ 0 5/ 2	9/49 10/43 10/7	27/32 22/ 8 22/54	24/ 0 24/ 0 24/ 0
	MY, HOPKINS, ARIZ.	0 \ 0 \ 0 \ 0 \ 0 \ 0	1/81/3	5/15 5/20	9/41 9/36	23/10 23/16	24/ 0 24/ 0
2 AUG 1971 EARTH SHADON	ALL STATIONS		24/ 0				
8ŲN	LA SERENA, CHILE CERRO TOLOLO, CHILE EREQUIPA, PERU	• 0/26 • 0/27 • 0/11	10/ 4 10/ 6 9/55	23/33 23/33 23/48	34/ 4 34/ 5 33/55		

FIGURE 4 — Sample data from file 07

					DTAL DAŤ	LŸ RELEA	SE WINDO	W TIME I	NTERVALS	****		
DATE	START HR/MIN	STOP HR/MIN										
1-AUG 1971	7/31	9/36										
2 AUG 1971	8/18	9/36										
3-AUG -1971	9/13	9/37			-							
-4-AUG1971-	####N(	RELEAS	E-WINDOW	FOR THE	S DATE+=							
5 AUG- 1971	" *****N(	RELEAS	E WINDOW	FOR THE	S DATE+*							
" 6 AUG 1971	****N(	RELEAS	E WINDOW	FOR THE	S DATE							
7 AUG 1971	*****N	RELEAS	E-WINDOW	FOR THE	S DATE+#							
8 AUG - 1971	~ *****N	RELEAS	E MINDOM	FOR THE	S DATE							
9 AUG 1971			E WINDOW									
10 AUG 1971	*****N(	) RELEAS	E MINDOM	FOR THE	S BATE+#	•••						
11 AUG 1971			E MINDOM									
T2 AUG 1971	****N(		E MINDOM									
13 AUG 1971	****N(	RELEAS	E WINDOW	FOR THE	S DATE							
14 AUG 1971	4/41	5/35		-								
15 "AUG" "1971	4/38	6/36			-							
16 AUG 1971	4/36	7/34										
17 AUG 1971	4/33	8/27			_							
18 AUG - 1971	4/29	9/16			_							
19 AUG 1971	4/26	9/42										
20 AUG 1971	4/22	9/43										
21 AUG 1971	4/16	9/45			_							
22 AUG 1971	4/10 ~	9/46				_						
23 AUG 1971	4/ 5	9/46										
24 AUG 1971	3/59	9/45	-									
25 AUG 1971	3/53	9/45			_	_						
26 AUG 1971	4/18	9/44			_							
27 AUG 1971	4/50	9/44	_	_								
28 AUG 1971	5/26	9/43 -										
29 AUG 1971	6/10	9/42										
30 AUG 1971	7/ 0	9/41										
31 AUG -1971	7/58	9/40										

FIGURE 5 — Sample data from file 09

TABLE 3.—Program Options

Option		Opt	ion code v	alue	<u>-</u>		System f	iles used	а			Optio	ns exerc	ised		
No	ICALC	IPRT7	IPRT9	IPRT11	IPLOT	01	07	09	11 b	Α	В	С	D	E	F	G
1	0	0	0	0	0	X	Х	X	X	Х	X	X	-x		X	1
2	0	0	0	0	1	X	X	X	X	X	X	X	X		1	X
3	0	0	0	0	2		X	X	X	X	X	X	X		ļ	İ
4	0	0	0	1	0	X	X	X	X	X	X	X	ļ.	X	X	
5	0	0	0	1	1	X	X	X	X	X	X	X	].	X	ļ	X
6	0	0	0	1	2		X	X	X	X	X	X	ļ	X	ļ	]
7	0	0	0	2	0	X	X	X	•	X	X	X	ļ.		X	
8	0	0	0	2	1	X	X	X		X	x	X				X
9	0	0	0	2	2		X	X		X	X	X			1	1
10	0	0	1	0	0	X	X	X	X	X	x	}	x	}	x	ļ.
11	0	0	1	0	1	X	X	X	X	X	X		X	,	ļ	X
12	0	0	1	0	2		X	X	X	X	X	,	X			
13	0	0	1	1	0	X	X	X	X	X	X			X	X	1
14	0	0	1	1	1	X	X	X	X	X	X	ļ	ļ	X		X
15	0	0	1	1	2		X	X	X	X	X	ļ.	}	X		1
16	0	0	1	2	0	X	X	X		X	X	ļ	1		X	1
17	0	0	1	2	1	X	X	X		X	X	ļ	ŀ			X
18	0	0	1	2	2		. X	X		X	X					-
19	0	1	0	0	0	X	X	X	X	X		X	X		X	
20	0	1	0	0	1	X	X	X	X	X		X	X			X
21	0	1	0	0	2		X	X	X	X		X	X			1
22	0	1	0	] 1	0	X	X	X	X	X		X		. X	X	
23	0	1	0	1	1	X	X	X	X	X		X	ĺ	X	ĺ	X
24	0	1	0	1	2		X	X	X	X		X		X		
25	0	1	0	2	0	X	X	X		X		X		ł	X	1
26 	0	1	0	2	1	X	X	X	ļ	X		X	ļ	}		X
27	0	1	0	2	2		X	X		( X		X		{	[	1
28	0	1	1	0	0	X	X	X	X	X			X		X	
29	0	1	1 . 1	0	1	X	X	X	X	X		-	X			. X
30	0	1		0	2		X	X	X	X		-	X			1
31 32	0	1	1	1 1	0	X	X	X	X	X	•	-		X	X	
33	0	1	1	1	1	X	X	X	X	X				X		X
33 34	0	1	!	1	2		X	X	X	X		•		X		1
34 35	0	1	!	2	0	X	X	X		X				1	x	
33	0	1	1	2	1	X	X	X		X				1	1	<b>X</b>

<sup>&</sup>lt;sup>a</sup> See table 1 for system control cards required for each system file <sup>b</sup> Required when calculating multiple cases regardless of "IPRT11" value

TABLE 3.—Program Options—Concluded

Option		Opt	tion code v	alue			System f	īles used	a			Optio	ons exerc	ısed		
No	ICALC	IPRT7	IPRT9	IPRT11	IPLOT	01	07	09	11 b	A	В	С	D	Е	F	G
36	0	1	1	2	2		Х	Х		Х						
37	1	0	0	N/A	0	X	X	X	{	1	X	x	[	ĺ	x	1
38	1	0	0	N/A	1	X	X	X		L	X	X	[		^	$\mathbf{x}$
39	1	0	0	N/A	2		x	X	[		X	X	[			] '-
10	1	0	1	N/A	0	X	X	Х	l		X		[		x	1
<b>41</b>	1	0	1	N/A	1	X	х		1	1	X	1			]	X
12	1	0	1	N/A	2		X			1.	x				]	
13	1	1	0	N/A	0	X		X		ļ.		X			x	
14	1	1	0	N/A	1	X		X		ļ.,		X	ļ. ,			X
<b>4</b> 5	1	] 1	0	N/A	2			X		ļ		X	ĺ			
16 .	1	1	1	N/A	0	X	ļ.	X	}		ļ	-			X	
<b>4</b> 7	1	1	1	N/A	1	X			ļ				. ↓			X
48	1	1	1	N/A	2		,		}	1						Ì

<sup>&</sup>lt;sup>a</sup> See table 1 for system control cards required for each system file
<sup>b</sup> Required when calculating multiple cases regardless of "IPRT11" value

Each requirement of a sky target experiment is considered separately in the program computations. Two assumptions made that affect the overall problem and are defined early in the program structure are.

- (1) The input position coordinates of each tracking station and of the target's release point use the Fisher Earth model.
- (2) The value used for the mean radius of the Earth and for the definition of one Earth radius is 6371.024 km.

#### Other assumptions are:

- (1) The program calculations use a spherical Earth model. This requires a transformation of input position coordinates from the given geodetic Earth model to the spherical Earth model of radius 6371.024 km.
- (2) The drift rate of the target after its release is constant, and the movement is in an east-west direction.
- (3) The position coordinates of any aircraft tracking station are given in half-hour increments from target release time. Aircraft position is treated as a set of discrete fixed locations rather than as a continuous flight pattern.
- (4) Release window calculations are accurate to within 1 min of time

The analysis for each constraint of the release window problem can now be defined.

#### TARGET ILLUMINATION

The sky target must be illuminated by the Sun throughout the experimental period. The time that the target passes into the Earth's shadow (umbra-penumbra region) must be determined. Initially, consider the target to be Earth fixed at a given geocentric latitude, longitude, and altitude above the Earth's center of mass. As such, the target may or may not pass through the Earth's shadow in a given 24-hr period. This event is a function of the Sun's declination, the target's declination, and the height of the target above the surface of the Earth.

Figure 6 illustrates a situation in which the target does not pass through the Earth's shadow. This occurs whenever the absolute value of the Sun's declination and the target's declination is greater than the angular radius of the Earth's shadow; that is,

$$|\delta_S + \delta_c| > r_s \tag{1}$$

where

 $\delta_s$  = the Sun's declination in radians

 $\delta_c$  = the target's declination in radians

 $r_s$  = the angular radius of the shadow in radians

Equation (1) results because the declination of the shadow's center is the negative of the Sun's declination.

Because  $\delta_c$  is known and  $\delta_s$  can be determined from an ephemenis table,  $r_s$  can be computed.

Figure 7 is used to illustrate the geometric relationships necessary for the solution of  $r_s$ .

The following variables are defined:

M = the mean distance in Earth radii units (ERU) between the Earth's and Sun's center of mass

P=the distance in ERU's from the Earth's center to the tip of the penumbra cone

H = the distance in ERU's of the target from the Earth's center

 $R_E$  = the radius in ERU's of the Earth

 $R_S$  = the radius in ERU's of the Sun

From similar triangles,

$$\frac{R_S}{M-P} = \frac{R_E}{P} \tag{2}$$

**Because** 

$$R_E = 1$$

$$P = \frac{M}{R_S + 1}$$

The following angles, which are measured at the Earth's center of mass (fig. 7), are defined:

A = the angle in radians between the Earth-Sun line and the edge of the shadow region

B = the angle in radians between the edge of the shadow region and the tangency point of the Earth-Sun penumbra line

C = the angle in radians between the tangency point of the Earth-Sun penumbra line and the Earth-Sun line

$$A + B + C = \pi \text{ rad} \tag{3}$$

where

 $B = \arccos 1/H$ 

 $C = \arccos 1/P = \arccos [(R_S + 1)/M]$ 

Using the mean values of  $R_s = 109.12R_E$  and  $M = 23.454.86R_E$ ,

$$C = 89^{\circ}44' = 1.5661 \text{ rad}$$

equation (3) can be rearranged in the form

$$A = \frac{\pi}{2} - B + \frac{\pi}{2} - C$$

or

$$A = \arcsin\frac{1}{H} + 0.0045 \,\text{rad} \tag{4}$$

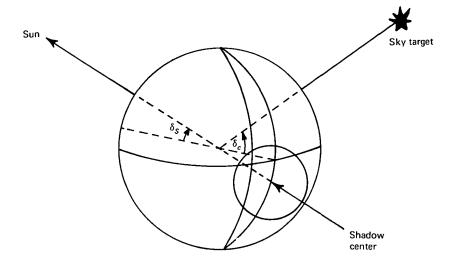


FIGURE 6 - Sky target outside Earth's shadow

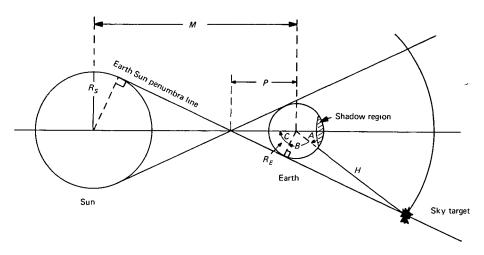


FIGURE 7 — Geometric relationships and shadow radius

The angular radius of the shadow

$$r_s = R_E A = A \text{ rad} \tag{5}$$

Therefore, equation (4) may be used to compute the radius of the shadow in radians, which is approximately 0.169 88 for a target distance  $H = 6R_E$ .

The time that any portion of the sky target is within the Earth's shadow can now be calculated. A cloud-type target is expected to grow in the direction of the geomagnetic poles and drift in the transverse direction after its release. It is assumed that cloud growth is constant and in a geographic north-south direction. Drift rate is assumed to be constant and in an east-west direction. A model of the cloud's behavior after its release can then be constructed.

Consider the target's release at some point  $(\alpha_c, \delta_c)$ , where

 $\alpha_c$  = the right ascension of the release point measured positive eastward from the Greenwich mendian

 $\delta_c$  = the declination of the release point

After release, the target will drift at some rate  $R_6$  rad/hr and elongate along the magnetic-field lines at some rate of  $2R_8$  rad/hr.

At the end of the experimental period, the extremities of the visible target will be at the points  $(\alpha_1, \delta_1)$  and  $(\alpha_2, \delta_2)$  and are defined as

$$\alpha_1 = \alpha_2 = \alpha_c + (R_6 + \omega)R_7 \tag{6}$$

$$\delta_1 = \delta_c + R_8 R_7 \tag{7}$$

$$\delta_2 = \delta_c - R_8 R_7 \tag{8}$$

where

 $R_7$  = duration in hours of the experimental period  $\omega$  = rotational velocity of the Earth

The region covered by the target from time of release to the end of the experimental period is within a triangle as shown in figure 8. Note that the Earth's shadow region is described as a circle.

For a given day, the right ascension and declination of the Earth's shadow center is assumed fixed. The right ascension of the release point varies with respect to time. Imagine the Earth's shadow region fixed and the entire triangular-shaped region covered by the target moving at a constant rate of change of right ascension. The target's model will then intersect at some points with the Earth's shadow region provided that either

or 
$$|\delta_1 - \delta_s| < r_s$$
 or  $|\delta_2 - \delta_s| < r_s$  or  $|\delta_c - \delta_s| < r_s$ 

The problem then is to determine at what universal times must the sky target be released to avoid the Earth's shadow. To answer this, the points of intersection of each line segment of the triangle with the shadow region must be determined if a solution exists and is possible. If  $T_d$  is the time of release causing the target to enter the shadow region as determined for each line segment of the triangle (i=1, 2, 3) and  $T_f$  is the time of release causing the target to exit the shadow region as determined for each line segment of the triangle (i=1, 2, 3), then

$$T_0 = \min \left( T_0^i, T_0^2, T_0^3 \right) \tag{9}$$

and

$$T_f = \max (T_f^1, T_f^2, T_f^3) \tag{10}$$

for valid solutions of  $T_0^i$  and  $T_f^i$ .

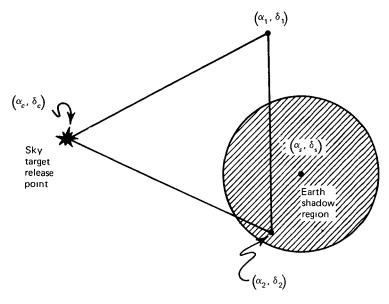


FIGURE 8 - Movement of sky target in Earth's shadow

The first point of contact of each line segment with the Earth's shadow region will be either at the endpoints of the line or at some point within the line segment.

Consider the case when the initial point of contact of the Earth's shadow region is a point within the line segment with endpoints  $(\alpha_e, \delta_e)$  and  $(\alpha_1, \delta_l)$ . The right ascension of the release points  $\delta_e$  for which this line will be tangent to the Earth's shadow region must be determined. The slope of this line will remain constant, and its value is  $R_s/(R_6+\omega)$ . The declination of the release point is time invariant and will also be constant. The intercept  $b_1$  of the line at the time of tangency with the Earth shadow region can now be determined. The equation of the line is

$$\delta = \frac{R_8}{R_6 + \omega} \alpha + b_1 \tag{11}$$

for some point  $(\alpha, \delta)$  of the line segment.

The distance from the line (when tangent to the Earth's shadow region) to the center of the Earth's shadow is equal to the shadow radius, and

$$r_{s} = \frac{|R_{8}\alpha_{s} - (R_{6} + \omega) \delta_{s} + (R_{6} + \omega) b_{1}|}{\sqrt{(R_{6} + \omega)^{2} + R_{s}^{2}}}$$
(12)

Solving for  $b_1$ ,

$$b_1 = \frac{(R_6 + \omega) \delta_s - R_8 \alpha_s \pm r_s \sqrt{(R_6 + \omega)^2 + R_8^2}}{R_6 + \omega}$$
(13)

Therefore, the values of right ascension for the release point when the line is tangent to the Earth's shadow region is

$$\alpha_c = \frac{R_6 + \omega}{R_8} \left( \delta_c - b_1 \right) \tag{14}$$

and the time of release is

$$t = \frac{\alpha_c - \lambda_c - HA_0}{1 + \Delta} \tag{15}$$

where

 $\lambda_c$  = the longitude of the target release point measured positive eastward from the Greenwich meridian

HA<sub>0</sub>= Greenwich hour angle of Aries at 0 hr universal time (UT) of the given day

 $\Delta = 0.002737909$ 

Two values of  $b_1$  are found from equation (13). Hence, two values for t are calculated, which represent the two points of tangency for the line to the Earth's shadow region. Because the right ascension of the release point will always move in one direction, the smaller value of t will always represent the time of entry into the Earth's shadow region.

In the other case, the relative position of the Earth's shadow region to the line segment could be such that the endpoints of the line segment will contact the Earth's shadow region at an earlier time. The point of contact will be at the edge of the Earth's shadow region and the distance from this point to the Earth's shadow center is equal to the shadow radius. Thus

$$(\alpha - \alpha_s)^2 + (\delta - \delta_s)^2 = r^2 \tag{16}$$

If the contact point is at the release point, set

 $\alpha_c = \alpha$ 

and

$$\delta_c = \delta$$

Time of release is then found from equation (15). For the contact point to be  $(\alpha_1, \delta_1)$ , set

$$\alpha_1 = \alpha$$

$$\delta_1 = \delta$$

and the time of release is found by using equation (6) and then equation (15).

A similar analysis for both cases is used for the side of the triangle whose line segment is between points  $(\alpha, \delta)$  and  $(\alpha_2, \delta_2)$ . The slope for this line is

$$\frac{-R_8}{R_6+\omega}$$

For the side of the triangle representing the position of the target at the end of the experiment, the slope of this line is 90°. The equation then would be

$$t = \frac{\alpha_s + (R_6 + \omega) R_7 \pm r_s - \lambda_c - HA_0}{1 + \Delta}$$
 (17)

for the case  $\delta_2 \leq \delta_s \leq \delta_1$ .

Otherwise,

$$t = \frac{(R_6 + \omega) R_7 \pm \sqrt{r_s^2 - (\delta - \delta_s)^2} - \lambda_c - HA_0}{1 + \Delta}$$
 (18)

where  $\delta = \delta_1$  whenever  $\delta_s > \delta_1$  and  $\delta = \delta_2$  whenever  $\delta_s < \delta_2$ .

#### TARGET ELEVATION

Another factor considered in the program is the elevation look angle above local horizon from each tracking station to the sky target. The analysis of target elevation is generalized to permit look angle to be a variable rather than a fixed argument.

Consider an Earth-fixed tracking station located at point  $S_1$  (fig. 9). Construct a vector from  $S_1$  at an elevation angle of E deg. Rotating this vector about the point  $S_1$  describes a conical shape with apex at  $S_1$ . Any point within this described conical region will then have an elevation look angle greater than E deg from  $S_1$ . The elevation constraint is satisfied whenever the target remains within the conical region for the duration of the experimental period.

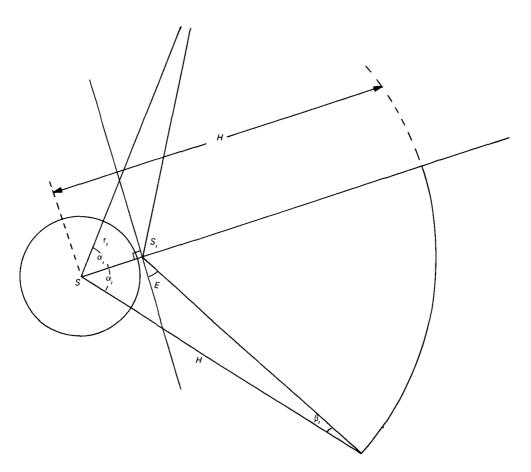


FIGURE 9 - Elevation look angle

From figure 9,

$$\frac{\sin \beta_i}{r_i} = \frac{\sin (\pi/2 + E)}{H} = \frac{\cos E}{H} \tag{19}$$

where

 $r_1$  = distance in ERU's from the Earth's center to  $S_1$ 

H = distance in ERU's from the Earth's center to the target

 $\beta_i$  = angle in radians at the intersection of the height of the vector from  $S_i$  to the height of the target for elevation E and the vector H

Then,

$$\alpha_{t} = \pi - (\pi/2 + E + \beta_{t})$$

$$= \frac{\pi}{2} - E - \arcsin\left(\frac{r_{t}}{H}\cos E\right)$$
(20)

Project the base of this conical region onto the surface of the spherical Earth model. The shaded region shown in figure 10 is the region that satisfies the elevation constraint. The arc radius of the shaded region is

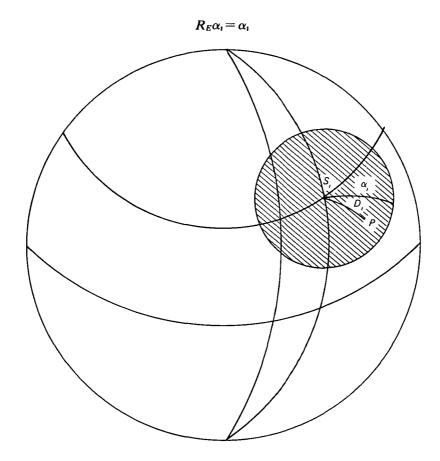


FIGURE 10 - Elevation constraint on Earth model

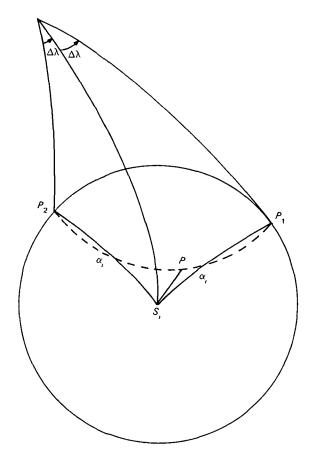


FIGURE 11 - Target drift on Earth model

Let P be the projection of the target release point onto the Earth's surface. The target has an elevation angle greater than E deg whenever the arc radius from  $S_i$  to P is less than  $\alpha_i$ . Denote this arc radius as  $D_i$ . Using spherical trigonometry,

$$\cos D_i = \cos\left(\frac{\pi}{2} - \phi_i\right) \cos\left(\frac{\pi}{2} - \phi_c\right) + \sin\left(\frac{\pi}{2} - \phi_i\right) \sin\left(\frac{\pi}{2} - \phi_c\right) \cos\left(\lambda_i - \lambda_c\right)$$
(21)

where

 $(\phi_t, \lambda_t)$  = geocentric latitude and longitude of tracking station  $S_t$  $(\phi_c, \lambda_c)$  = geocentric latitude and longitude of the sky target projection at point P

The question arises of whether the target will drift out of the region during the experimental period Because the assumed drift is in an east-west direction, the change in target position will be reflected as a longitudinal change only. Consider points  $P_1$  and  $P_2$  at the edge of the region at geocentric latitude  $\phi_c$  (fig. 11). For an easterly drift, the target will move toward  $P_1$ . The arc radius from  $S_1$  to  $P_1$  or  $P_2$  is  $\alpha_1$ . From figure 11, we see that the differences in longitude, denoted by  $\Delta\lambda$ , between  $S_1$  and  $P_1$  and between  $S_1$  and  $P_2$  are equal. Then

$$\Delta \lambda = \arccos \frac{\cos \alpha_1 - \sin \phi_1 \sin \phi_c}{\cos \phi_1 \cos \phi_c}$$
 (22)

$$\lambda_1 = \lambda_t + \Delta\lambda \tag{23}$$

$$\lambda_2 = \lambda_1 - \Delta\lambda \tag{24}$$

where

 $\lambda_1 = \text{longitude in radians at point } P_1$ 

 $\lambda_2$  = longitude in radians at point  $P_2$ 

The time it will take a target to drift from P to  $P_1$  (for an easterly drift) is

$$T = \left| \frac{\lambda_c - \lambda_1}{R_6} \right| \qquad \text{hr} \tag{25}$$

and from P to  $P_2$  (for a westerly drift) is

$$T = \left| \frac{\lambda_c - \lambda_2}{R_c} \right| \qquad \text{hr} \tag{26}$$

where  $R_6$  is the given drift rate in units of radians per hour.

If the total required tracking time is  $R_7$  hr and  $T \ge R_7$ , where  $R_7$  is the duration of the experimental period, then the elevation constraint is satisfied. If  $T < R_7$ , the program prints a statement naming the tracking station and giving the value of T. The program then continues with the remainder of its calculations.

When an aircraft is used as a tracking station, assume that the path and speed of the aircraft will be such that its position at target release and at the end of the experimental period are checked. Use these position coordinates to determine arc radius  $D_1$ . The elevation constraint is satisfied whenever  $D_1 < \alpha_1$  for both positions.

#### SUN AND MOON

The period for which the Sun and the Moon constraints will hold for a given tracking station i is initially approximated. Let  $(T_{0_i}, T_{f_i})$  be the time period for the Sun (Moon) constraint to be satisfied at station i for a given day

Initially in hours,

$$T_{0i} = (19.0 - K\lambda_i) \mod 24$$
 (27)

and

$$T_{f_i} = (5.0 - K\lambda_i) \mod 24 \tag{28}$$

where 19.0 and 5.0 are approximate astronomical twilight times at the Greenwich meridian. As before

K = conversion factor from radians to hours

 $\lambda_i$  = longitude in radians of tracking station i

Because the Moon is not on a yearly cycle, as is the Sun, an epoch date of January 0, 1970, is used in the initial approximation. For the Moon, again using approximate times of moonset (11.5 hr UT) and moonrise (0.0 hr UT) at the Greenwich meridian,

$$T_{0_1} = [11.5 + 0.82 (J - J_0) - K\lambda_1] \mod 24 \tag{29}$$

$$T_{f_1} = [0.0 + 0.82 \ (J - J_0) - K\lambda_1] \ \text{mod } 24 \tag{30}$$

where

J = Julian date for the initial day  $J_0 = Julian$  date for January 0, 1970

To determine an accurate time period  $(T_{0_1}, T_{f_1})$  for the Sun's (Moon's) constraint to be met at station i, find the inertial rectangular coordinates of the Sun (Moon) for the initial time  $T_{0_1}$ . Transforming these coordinates to a topocentric system (see app. A) with origin at  $S_1$ , we find the depression angle for the Sun (Moon) from  $S_1$  to be

$$E = \arcsin \frac{X}{r} \tag{31}$$

where

X= the topocentric X coordinate in ERU's for the Sun (Moon) at time  $T_{0}$ , r= the distance in ERU's from  $S_{1}$  to the Sun (Moon)

Define  $R_3$  as the depression angle constraint in radians of the Sun and  $R_4$  as the depression angle constraint in radians of the Moon. If

$$\left|1.0 - \frac{E}{R_3}\right| < 10^{-4} \tag{32}$$

then  $T_{0i}$  is the universal time for the beginning of the time period for the Sun constraint at station i.

For the Moon, equation (32) becomes

$$\left| 1.0 - \frac{E}{R_4} \right| < 10^{-4} \tag{33}$$

If either equation (32) or (33) is invalid, then a three-point interpolation is done to determine the  $T_{0}$ , that satisfies these equations. For this interpolation, set

$$\Delta t_1 = E - R_3 \tag{34}$$

$$E_1 = E \tag{35}$$

$$T_{0} = T_{0} + \Delta t_{1} \tag{36}$$

Now compute the Sun's (Moon's) inertial coordinates for the new value of  $T_{0_1}$ . Transforming to the topocentric coordinate system, a new value for E in equation (31) is found. If equation (32) or (35) is still invalid, then set

$$\Delta t_{j} = \left| \frac{t_{j-1}}{E - E_{j-1}} \right| (E - R_{3}) \tag{37}$$

(replace  $R_3$  by  $R_4$  in the case of the Moon):

$$E_1 = E \tag{38}$$

and

$$T_{0} = T_{0} + \Delta t, \tag{39}$$

This iterative procedure is to be repeated until equation (32) or (33) is satisfied or until j=15. The program will stop if j=15 because this system should converge rapidly.

To determine  $T_{f_i}$ , the same logic is used by replacing  $T_{0_i}$  by  $T_{f_i}$  in the above equations. However, instead of equations (36) and (39) use

$$T_{f_i} = T_{f_i} - \Delta t_1$$

and

$$T_{f_i} = T_{f_i} - \Delta t_i$$

respectively.

For these time periods to remain valid during the tracking of a sky target, subtract  $R_7$  from  $T_{f_1}$ .

If the target is released at some time within  $(T_{0_1}, T_{f_1} - R_7)$ , then the Sun's (Moon's) depression angle will be less than the required depression angle.

The positions of the aircraft at time of target release and at the end of the experimental period are used to determine its time interval satisfying the Sun and Moon constraints.

Let  $(t_0, t_f)$  be the interval found for the position of the aircraft at time of release, and let  $(t'_0, t'_f)$  be the interval found for the position of the aircraft at the end of the experimental period. Then, the time interval for the aircraft is the intersection of these two intervals

$$(T_0, T_f) = (t_0, t_f) \cap (t_0' - R_7, t_f' - R_7) \tag{40}$$

This is true for both the Sun and the Moon requirements.

#### TOTAL SKY BRIGHTNESS

Sky background brightness in the field of view of the optical instrumentation at each site is not to exceed  $R_5$  rayleighs for a given wavelength. For practical purposes, consider only this brightness along the line of sight between each tracking station and the sky target.

The total sky brightness in rayleighs is expressed as being

$$B_{ti} = B_{ai} + (B_{si} + B_{zi}) (0.73^{\sec z_i})$$
 (41)

where

 $B_{ti}$  = total sky brightness at a given point in the sky

 $B_{ai}$  = the airglow brightness at the given point in the sky

 $B_{si}$  = brightness of stars at the given point

 $B_{zi}$  = brightness due to zodiacal light at the given point

 $Z_i$  = zenith angle in radians or the angle measured from station *i*'s zenith to the vector from station *i* to the release point.

$$B_{ai} = (0.8 \sec Z_i) \cdot (0.73^{\sec Z_i - 1}) \tag{42}$$

Before calculating  $B_{ti}$  from equation (41), the geometrical relationships between each station i and the target are defined with respect to time.

Airglow brightness is a function of angle  $Z_i$ . Let P be the position of the release point, and let  $S_i$  be the position of station i. Describe the coordinates for P and  $S_i$  in terms of these geodetic coordinates. That is

$$P = P(h_p', \phi_p', \lambda_p')$$

$$S_i = S(h'_i, \phi'_i, \lambda'_i)$$

where

 $h'_p$  = altitude in ERU's of release point above the Earth's surface

 $\phi_p'$  = geodetic latitude in radians of the release point

 $\lambda_p' =$ longitude in radians of the release point

 $h'_i$  = altitude in ERU's of station i above the Earth's surface

 $\phi_i'$  = geodetic latitude in radians of station i

 $\lambda_i' = \text{longitude in radians of station } i$ 

#### Now determine

- (1)  $u_i$  = vector from the Earth's center to station i
- (2) v=vector from the Earth's center to release point
- (3)  $\mathbf{w}_i = \text{vector from station } i \text{ to release point}$
- (4)  $\mathbf{u}'_{i}$  = unit vector coincident with the zenith of station i

These vectors are shown in figure 12.

The components of  $\mathbf{u}_i$  and  $\mathbf{v}$  are functions of the polar coordinates of the release point and of station i.

The rectangular components of u, and v are

$$u_{1x} = r_1 \cos \phi_1 \cos \lambda_1 \tag{43}$$

$$u_{iy} = r_i \cos \phi_i \sin \lambda_i \tag{44}$$

$$u_{1z} = r_1 \sin \phi_1 \tag{45}$$

and

$$v_x = r_p \cos \phi_p \cos \lambda_p \tag{46}$$

$$v_y = r_p \cos \phi_p \sin \lambda_p \tag{47}$$

$$v_z = r_p \sin \phi_p \tag{48}$$

where

 $r_i$  = radial distance in ERU's from the Earth's center to station i

 $\phi_i$  = geocentric latitude in radians of station  $\iota$ 

 $r_p$  = radial distance in ERU's from the Earth's center to the release point

 $\phi_n$  = geocentric latitude in radians of the release point

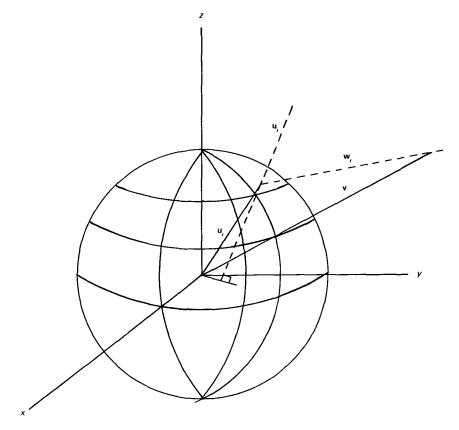


FIGURE 12 - Vectorial notation for sky brightness constraint

#### By definition

$$\mathbf{w}_i = \mathbf{v} - \mathbf{u}_i \tag{49}$$

The components of the unit vector  $\mathbf{u}_i'$  are

$$u_{ix}' = \cos \phi_i' \cos \lambda_i \tag{50}$$

$$u_{iy}' = \cos \phi_i' \sin \lambda_i \tag{51}$$

and

$$u_{iz} = \sin \phi_i' \tag{52}$$

By the definition of the dot product of two vectors,

$$\cos Z_i = \frac{\mathbf{u}_i' \cdot \mathbf{w}_i}{|\mathbf{w}_i|}$$

or

$$\cos Z_{i} = \frac{1}{|\mathbf{w}_{i}|} [u'_{ix}w_{ix} + u'_{iy}w_{iy} + u'_{iz}w_{iz}]$$
 (53)

Define

$$C_i = (0.73)^{\sec z_i} \tag{54}$$

Then equation (42) becomes

$$B_{ai} = \frac{0.8 C_i}{0.73 \cos Z_i} \tag{55}$$

which is the airglow contribution to sky brightness from station i to the release point.

During the experimental period, the target has a drift rate of  $R_6$  rad/hr relative to the Earth. The zenith angle and, hence, the airglow brightness will vary because of the change in direction of vector  $\mathbf{w}_1$ .

The Earth-relative position of the sky target t hours after release will be

$$P' = P' (r_{p'} \phi_{p'} \lambda_p')$$

where

$$\lambda_p' = \lambda_p + R_6 t \tag{56}$$

Let  $\mathbf{w}_i$  be the vector from  $S_i$  to P'. Its geocentric rectangular coordinates are then

$$w'_{1x} = r_p \cos \phi_p \cos \lambda'_p - u_{1x}$$

$$w'_{iy} = r_p \cos \phi_p \sin \lambda'_p - u_{iy}$$

$$w'_{1z} = r_n \sin \phi_n - u_{1z}$$

Combining the results of equations (46), (47), and (48) with the result of equation (56),

$$w_{1x}' = v_x \cos R_6 t - v_y \sin R_6 t - u_{1x} \tag{57}$$

$$w_{1y}' = v_x \sin R_6 t + v_y \cos R_6 t - u_{1y} \tag{58}$$

$$w_{1z}' = v_z - u_{1z} (59)$$

The geocentric rectangular coordinates of the aircraft's position t hours after release are appropriately used for component values  $u_{1x}$ ,  $u_{1y}$ , and  $u_{1z}$  in the above three equations Airglow brightness seen from the aircraft t hours after target release is found by using the results of these three equations in equations (53), (54), and (55).

#### **ZODIACAL LIGHT AND STARLIGHT**

The analysis for determining brightness due to zodiacal light and starlight must be investigated separately because the two light sources are time dependent. For the analysis, define the components of the vectors  $\mathbf{u}_1$ ,  $\mathbf{v}$ , and  $\mathbf{w}_1$  in an inertial reference frame. The inertial reference frame is defined as a right-handed rectangular coordinate system with the x-axis directed toward the first

point of Aries, the z-axis coincident with the Earth's polar axis, and the y-axis completing the right-handed system. The origin of the system is at the Earth's center.

The z-axis of the inertial reference frame and of the geocentric reference frame are coincident. The angular difference between the inertial x-axis and the inertial y-axis and their respective axes in the geocentric coordinate system is the Greenwich hour angle HA. For some universal time T of a given day

$$HA = HA_0 + T(1.0 + \Delta) \tag{60}$$

where

 $HA_0$ = the Greenwich hour angle in hours at zero hours UT of the given day  $\Delta$ =0.002 737 909

The inertial components of vectors u<sub>1</sub> and v are

$$u'_{ix} = |\mathbf{u}_i| \cos \phi_i \cos (\mathbf{H}\mathbf{A} + \lambda_i) \tag{61}$$

$$u_{iy}' = |\mathbf{u}_i| \cos \phi_i \sin (\mathbf{H}\mathbf{A} + \lambda_i) \tag{62}$$

$$u_{1z}' = u_{1z} = |\mathbf{u}_1| \sin \phi_1 \tag{63}$$

$$v_x' = |\mathbf{v}| \cos \phi_p \cos (\mathbf{H} \mathbf{A} + \lambda_p) \tag{64}$$

$$v_y' = |\mathbf{v}| \cos \phi_p \sin (\mathbf{H} \mathbf{A} + \lambda_p) \tag{65}$$

$$v_z' = v_z = |\mathbf{v}| \sin \phi_p \tag{66}$$

Using the results of equations (43) through (48) and noting that  $|\mathbf{u}_i| = r_i$  and  $|\mathbf{v}| = r_p$ , we have

$$u_{ix} = |\mathbf{u}_i| \cos \phi_i (\cos HA \cos \lambda_i - \sin HA \sin \lambda_i)$$

$$u'_{ix} = \mathbf{u}_{ix} \cos HA - u_{iy} \sin HA$$
(67)

$$u_{1y} = |\mathbf{u}_1| \cos \phi_1 \left( \sin \mathsf{HA} \cos \lambda_1 + \cos \mathsf{HA} \sin \lambda_1 \right)$$

$$u'_{1y} = u_{1x} \sin \mathsf{HA} + u_{1y} \cos \mathsf{HA}$$
(68)

For v,

$$v_r' = v_x \cos HA - v_u \sin HA \tag{69}$$

$$v_y' = v_x \sin HA + v_y \cos HA \tag{70}$$

The components of w, are defined by equation (49).

The zodiacal light brightness and the starlight brightness in the direction of w<sub>1</sub> are found in appropriate tables. Values of zodiacal light brightness for given ecliptic latitude versus elongation are found in table 4, and values for starlight brightness versus inertial latitude and longitude are found in table 5. Both tables are in units of 10th visual magnitude stars per square degree. The zodiacal light

TABLE 4.—Zodiacal Light in 10th Visual Magnitude Stars deg-2

Ecliptic latitude -						Elongation	on (celest	ial longiti	ıde mınu	s mean lo	ngitude o	of Sun, λ-	- λ <sub>0</sub> )						
β	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
90	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	7
80	80	79	78	77	74	73	73	73	72	72	72	72	72	71	71	71	71	71	7
70	105	101	99	96	90	83	80	78	76	76	76	75	75	75	74	74	74	74	7
60	135	131	125	117	107	98	93	90	86	84	83	83	82	82	81	81	80	79	7
50	180	170	160	150	135	123	112	101	97	94	93	90	89	88	87	87	87	86	8
40	270	250	220	190	175	155	143	130	118	108	103	99	98	97	95	94	93	93	9
30	460	400	360	300	260	200	180	160	146	133	120	112	108	106	105	105	106	108	10
20	800	700	610	500	390	300	250	200	175	155	143	129	122	118	117	120	124	127	130
10	1400	1200	1000	960	700	480	350	270	220	185	165	149	135	128	126	130	136	143	140
0	3000	1800	1500	1200	950	700	430	310	250	200	180	160	145	136	133	138	146	160	180

TABLE	5. –	-Starlight	in	10th
-------	------	------------	----	------

Inertial latitude.	Iner															nertial			
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
90	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
80	71	71	71	71	70	70	68	67	64	62	59	55	53	51	49	48	48	47	47
70	87	82	76	70	67	68	73	76	74	69	63	56	51	48	46	44	42	41	41
60	209	186	168	148	120	90	69	68	77	76	68	58	51	45	42	40	38	37	35
50	154	140	129	121	120	127	151	108	81	81	73	62	53	45	40	37	34	33	32
40	113	100	87	78	77	85	102	164	161	105	81	66	57	45	38	33	30	31	30
30	75	69	64	58	51	50	64	88	195	189	109	76	61	48	37	31	29	27	28
20	49	47	48	47	45	44	47	65	90	276	179	98	73	53	39	32	29	28	30
10	37	36	37	39	40	41	45	58	80	138	270	142	96	65	45	35	32	32	32
0	34	32	32	35	37	39	45	60	87	112	289	182	133	86	55	42	37	36	36
- 10	35	32	31	33	34	36	45	60	93	133	197	263	154	114	71	53	47	43	43
-20	36	32	32	32	33	36	45	59	87	137	203	368	200	139	94	67	58	55	54
- 30	34	36	33	32	33	37	45	58	78	117	202	321	459	209	123	85	73	72	73
40	33	34	35	34	35	38	45	55	70	92	153	276	458	572	269	156	101	96	101
- 50	38	37	37	37	37	39	44	53	63	77	103	186	302	489	742	484	312	244	214
- 60	44	42	40	40	40	42	46	51	59	69	78	111	173	241	318	514	694	682	608
<b>– 70</b>	50	48	46	45	45	47	49	53	58	65	69	79	98	126	154	176	200	217	233
- 80	56	55	54	54	54	55	57	59	61	64	65	68	73	78	84	91	98	104	108
<b>-90</b>	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66

table was adopted from figure 5 of reference 2 and the starlight table was adopted from reference 3. The definition of the ecliptic coordinate system is found in reference 4. Interpolation of these tables gives the sky brightness due to zodiacal light  $B_z$  and starlight  $B_z$  in the direction of vector  $\mathbf{w}_1$  at universal time t. The total sky background brightness for this time is calculated from equation (41).

The computation of  $B_{t_1}$  for universal time t has been described. The problem is to find the time interval  $(T_{0_1}, T_{f_1})$  for which the total sky background brightness  $B_{t_1}$  is less than  $R_5$ . The method used for this computation is to calculate  $B_{t_1}$  at half-hour increments during a given day for each station i.

Whenever two consecutive total sky brightness values are found such that one meets the constraint and the other exceeds it, a two-point iterative procedure is used to find the appropriate bounds of the time interval. Whether the total sky background brightness is less than  $R_5$  during the experimental period must also be determined.

The Earth-relative components of the vector from  $S_t$  to P' are given in equations (57), (58), and (59). Transforming these components into the appropriate coordinate system, the zodiacal light and starlight brightness are found for t hours after cloud release. Combining these values with airglow brightness at time t will give  $B_{tt}$ . Whenever  $B_{tt}$  is less than  $R_5$  for  $0 < t < R_7$ , then t is within the interval  $(T_0, T_{f_1})$ .

Visual Magnitude Stars deg-2

longit	ude, d	leg															
190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360
57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
47	47	48	49	50	52	53	55	57	59	61	63	65	67	68	69	70	71
41	41	42	44	46	49	53	57	62	66	71	75	79	84	89	92	91	87
35	36	37	39	42	47	54	61	70	82	93	103	123	152	194	230	227	209
32	31	32	35	39	46	55	68	86	110	131	158	233	368	288	199	171	154
29	28	30	33	37	45	57	75	110	149	161	231	410	245	186	154	129	113
31	29	31	34	38	46	61	86	133	172	162	348	237	162	108	87	81	75
29	31	33	35	39	47	65	95	138	134	209	231	155	89	67	60	53	49
31	32	36	38	42	52	70	94	120	120	245	165	102	67	54	47	40	37
36	36	40	42	47	57	71	87	106	183	179	141	85	61	49	42	37	34
43	45	47	49	54	65	74	94	137	254	179	130	80	58	48	41	38	35
55	55	59	61	69	79	95	145	299	238	191	120	75	55	45	39	37	36
75	78	83	93	108	131	180	321	375	255	164	103	71	54	44	38	35	34
111	126	146	175	201	236	382	531	333	218	125	88	67	54	45	39	36	33
213	232	256	281	332	529	540	360	246	140	94	78	66	57	50	45	40	38
557	547	568	580	511	336	287	214	112	94	78	71	65	60	55	51	47	44
243	242	231	216	196	173	146	113	88	75	70	67	63	61	58	55	52	50
110	110	107	102	96	89	82	76	71	68	66	65	62	61	59	58	57	56
66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66

# Summary

The analysis presented herein is a guide for use of the computer program. The program is intended to compute the daily release window for sky target experiments for the specific requirements of each project. Flexibility in programing techniques was used as much as possible so that the program could be adapted for all projects with similar requirements. A combined window using a maximum of 12 fixed stations or a maximum of 10 fixed stations and one aircraft may be computed. The window output is accurate to within 1 min of time.

# References

- 1 GE-600 Line Control Cards Reference Manual CPB-1688, Information Systems Equipment Division, General Electric Co, Apr 1970, pp 27-30, 49-52
- 2 DUMONT, RENE Photometry of Zodiacal Light and Atmospheric Continuum by H-M Method and Barbier Correlations, and Tenerife Results About the Shape of the Zodiacal Cloud The Zodiacal Light and the Interplanetary Medium, NASA SP-150, 1967, pp 63-69
- 3 ROACH, F E, AND MEGILL, LAWRENCE R Integrated Starlight Over the Sky Astrophys J, vol 133, Jan May 1961, pp 228-242
- 4 Explanatory Supplement to the Astronomical Ephemeris and the American Ephemeris and Nautical Almanac Her Majesty's Stationery Office (London), 1961, pp 24-27

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#### GEODETIC TO GEOCENTRIC

Let P be a point above the Earth's surface with coordinates  $(h, \phi_g, \lambda)$ , where

h = height of the point above the Earth's surface

 $\phi_g$  = geodetic latitude in radians of the point

 $\lambda = longitude$  in radians of the point

Let Q be a projection of P onto the Earth's surface. Consider the points P and Q in two dimensions as seen on figure A-1. This figure represents a quarter of an ellipsoid cut along a meridian plane. Let

a = semimajor axis in kilometers of the ellipse (in the x direction)

b = semiminor axis in kilometers of the ellipse (in the y direction)

The general equation of an ellipse is

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1 \tag{A-1}$$

For the Earth's ellipsoid, several geoids have been described. In this analysis, the Fischer Earth model is used, where a = 6378.166 km and the Earth's flattening F = 1/298.30. By definition,

$$F = \frac{a-b}{a}$$

or

$$b = a - aF = a(1 - F)$$

We can now determine the coordinates of point Q in figure A-1 as measured from the origin Q.

From equation (A-1),

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

$$b^2x^2 + a^2y^2 = a^2b^2$$

$$y^2 = \frac{a^2b^2 - b^2x^2}{a^2} \tag{A-2}$$

$$y = \frac{b}{a} \sqrt{a^2 - x^2}$$

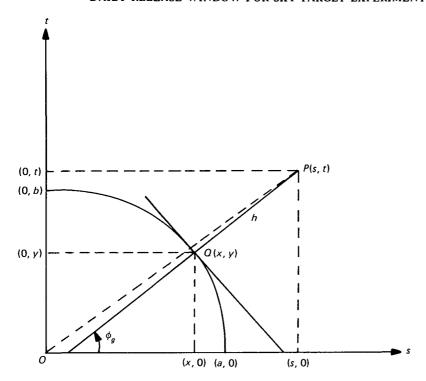


FIGURE A-1 - Geodetic coordinate system

Differentiating equation (A-1),

$$\frac{2x \, dx}{a^2} + \frac{2y \, dy}{b^2} = 0$$

$$b^2x \, dx + a^2y \, dy = 0$$

$$\frac{dy}{dx} = \frac{-b^2x}{a^2y}$$
(A-3)

gives the slope of the line tangent to the ellipse at Q. The line perpendicular to this tangent has its slope equal to -1/(dy/dx). This, by definition, is the tangent of the geodetic latitude  $\phi_g$ . Hence,

$$-\frac{dx}{dy} = \tan \phi_g \tag{A-4}$$

Combining equations (A-3) and (A-4),

$$\tan \phi_g = \frac{a^2 y}{b^2 x}$$

or

$$y = \frac{b^2 x \tan \phi_g}{a^2} \tag{A-5}$$

Combining equations (A-5) and (A-2),

$$\frac{b}{a}\sqrt{a^2-x^2} = \frac{b^2}{a^2}x\tan\phi_g$$

Solving for x

$$(a^2 - x^2) = \frac{b^2}{a^2} x^2 \tan^2 \phi_g$$

$$a^4 - a^2x^2 = b^2x^2 \tan^2 \phi_a$$

$$x^2 = \frac{a^4}{a^2 + b^2 \tan^2 \phi_a}$$

$$x = \pm \frac{a^2}{\sqrt{a^2 + b^2 \tan^2 \phi_a}}$$

From figure A-1 and the problem definition, we see that the x value is always positive. Hence,

$$x = \frac{a^2}{\sqrt{a^2 + b^2 \tan^2 \phi_g}} \tag{A-6}$$

We now resolve the values of the coordinates (s, t) of point P as measured from the origin.

$$P_s = x + h\cos\phi_a \tag{A-7}$$

$$P_t = y + h \sin \phi_q \tag{A-8}$$

Define the point P in a three-dimensional coordinate system with the x-axis in the direction of the Greenwich meridian, the z-axis as the Earth's polar axis, and the y-axis completing the right-handed system.

To define P in this coordinate system (as shown in fig. A-2), recall that our two-dimensional ellipse defined in figure A-1 was cut along the longitude meridian of P. Hence  $P_s$  is the resultant component of  $P_x$  and  $P_y$  in the x, y plane of figure A-2 and  $P_z = P_t$ . Therefore,

$$P_x = P_s \cos \lambda \tag{A-9}$$

$$P_y = P_s \sin \lambda \tag{A-10}$$

$$P_z = P_t \tag{A-11}$$

The radius vector in kilometers is

$$R = \sqrt{P_x^2 + P_y^2 + P_z^2} \tag{A-12}$$

and the geocentric latitude in radians is

$$\phi_c = \arcsin \frac{P_z}{R} \tag{A-13}$$

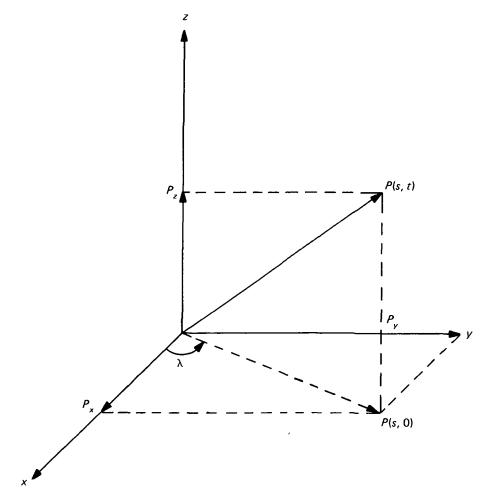


FIGURE A-2 - Geocentric coordinate system

# INERTIAL TO GEOCENTRIC

The inertial coordinate system is defined as a right-handed coordinate system with origin at the Earth's center, the x-axis directed toward the first point of Aries, the z-axis directed toward the polar axis, and the y-axis in the equatorial plane completing the system.

For this transformation, define the sidereal hour angle HA as the angle measured in the equatorial plane from the first point of Aries to the Greenwich meridian at some time t. Let P be a vector in the inertial coordinate system with components

$$P_x' = |\mathbf{P}| \cos \phi_c \cos \lambda \tag{A-14}$$

$$P_y' = |\mathbf{P}| \cos \phi_c \sin \lambda \tag{A-15}$$

$$P_z' = |\mathbf{P}| \sin \phi_c \tag{A-16}$$

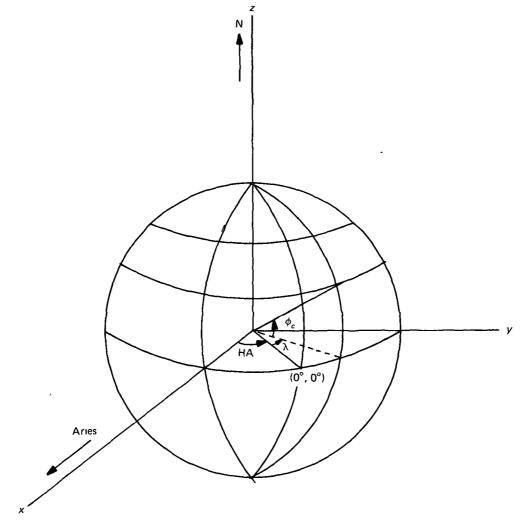


FIGURE A-3 - Inertial to geocentric coordinate transformation

Transformation from inertial to geocentric coordinate systems is a pure rotation counterclockwise about the z-axis through HA for some time t. (See fig. A-3.) Denoting the components of P in the geocentric system by  $P_x$ ,  $P_y$ ,  $P_z$ , we have

$$\begin{bmatrix} P_x \\ P_y \\ P_z \end{bmatrix} = T \begin{bmatrix} P'_x \\ P'_y \\ P'_z \end{bmatrix}$$
 (A-17)

where

$$T = \begin{bmatrix} \cos HA & \sin HA & 0 \\ -\sin HA & \cos HA & 0 \\ 0 & 0 & 1 \end{bmatrix}$$
 (A-18)

# GEOCENTRIC TO INERTIAL

For transformation from the geocentric coordinate system to the inertial system,

$$\begin{bmatrix} P'_x \\ P'_y \\ P'_z \end{bmatrix} = T^{-1} \begin{bmatrix} P_x \\ P_y \\ P_z \end{bmatrix}$$
 (A-19)

where

$$T^{-1} = \begin{bmatrix} \cos HA & -\sin HA & 0 \\ \sin HA & \cos HA & 0 \\ 0 & 0 & 1 \end{bmatrix}$$
 (A-20)

# **INERTIAL TO TOPOCENTRIC**

The topocentric coordinate system is defined as a right-handed coordinate system with origin at point  $Q(R_1, \phi_c, \lambda)$ . The x-axis is directed outward toward the zenith of Q, the z-axis is directed north, and the y, z plane is the plane of the local horizon of Q.

To transform from inertial to topocentric coordinates, first rotate about the z-axis through the angle  $(HA + \lambda)$  for some time t. Then rotate these results about the new y-axis through the geocentric latitude  $\phi_c$ . The origin is then translated from the Earth's center to the point O.

Let P be the vector whose inertial components are  $P'_x$ ,  $P'_y$ ,  $P'_z$ , then

$$\begin{bmatrix} x \\ y \\ z \end{bmatrix} = RT \begin{bmatrix} P_x' \\ P_y' \\ P_z' \end{bmatrix}$$
 (A-21)

where T is the  $3\times3$  matrix of equation (A-18) and

$$R = \begin{bmatrix} \cos \phi_c & 0 & \sin \phi_c \\ 0 & 1 & 0 \\ -\sin \phi_c & 0 & \cos \phi_c \end{bmatrix}$$
 (A-22)

Translating from the Earth's center to O.

$$P_{xT} = x - R_1 \tag{A-23}$$

$$P_{vT} = y \tag{A-24}$$

$$P_{zT} = z \tag{A-25}$$

where  $R_1$  is the radial distance from the Earth's center to the point Q in ERU's.

#### **INERTIAL TO ECLIPTIC**

The ecliptic coordinate system is defined as a right-handed rectangular coordinate system with its center at the Earth's center and x-axis the angular distance from the inertial x-axis to the mean longitude of the Sun. The x, y plane lies in the plane of the ecliptic with the y-axis 90° counterclockwise from the x-axis. The z-axis completes the right-handed system. The transformation from the inertial to ecliptic reference frames is then purely rotational. (See ref. 4.) To perform this transformation, rotate counterclockwise about the inertial x-axis through the angle of inclination of the ecliptic plane to the equatorial plane E:

$$\begin{bmatrix} x_e \\ y_e \\ z_e \end{bmatrix} = A \begin{bmatrix} x_i \\ y_i \\ z_i \end{bmatrix}$$
 (A-26)

where

$$A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & \cos E & \sin E \\ 0 & -\sin E & \cos E \end{bmatrix}$$
 (A-27)

The ecliptic latitude  $\phi_e$  and ecliptic longitude  $\lambda_e$  are

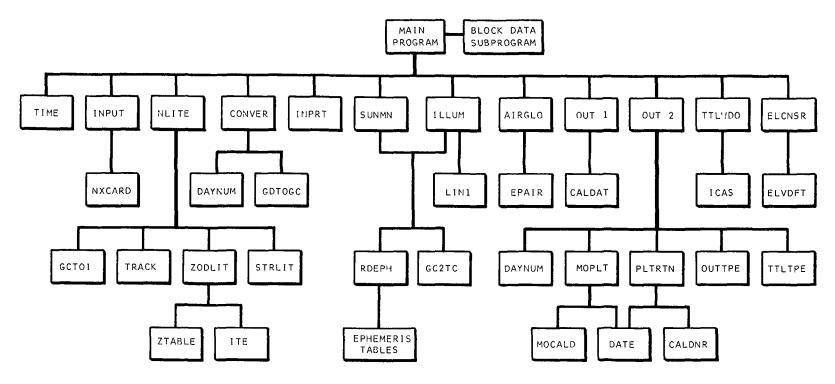
$$\phi_e = \arcsin \frac{x_e}{\sqrt{x_e^2 + y_e^2 + z_e^2}} \tag{A-28}$$

$$\lambda_e = \arctan \frac{y_e}{x_e} \tag{A-29}$$

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This appendix describes the programing logic used in the computer program and provides a basic understanding of the methods used to develop the defined daily release window requirements. A collection of the flowcharts, a listing of all subroutine documentation cards, and a hierarchy chart of the entire set of subroutines used in the program are included here.



PROGRAM HIERARCHY CHART

SNUMB = 68427, ACTIVITY # = 02, REPORT CODE = 06, RECORD COUNT = 0329n

\*\*\*\*\*\*\*\*\*\*TARGET RELEASE WINDOW - PROGRAM NUMBER 1,1,1615

\*\*\*\*\*\*\*\* NASA WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*LANGUAGE-FORTRAN IV

\*\*\*\*\*\* \*\* \*\* \* ACHINE-GE 625

\*\*\*\*\*\*\*PROGRAM AUTHURS-

CURTIS, C, MARSHALL EVERTON, EDGAR HARMON, THOMAS HANCOCK, DAVID MELVIN, DENNIS MICHAUD, NORMAN

#### \*\*\*\*\*\*\*PURPUSE-

THIS IS THE MAIN PROGRAM WHICH COMPUTES THE RELEASE WINDOWS FOR A SKY TARGET EXPERIMENT.

#### \*\*\*\*\*\*\*\*\*ETHOD=

THIS PROGRAM PROVIDES AUTOMATIC COMPUTATION OF THE RELEASE WINDOWS SATISFYING THE REDUIREMENTS FOR THE RELEASE CRITERIA. THIS PROGRAM IS DEVELOPED IN MODULAR FORM WITH THE FULLOWING MAIN FUNCTIONS,...

- ALLEFINE PROGRAM INPUTS.
- B. DEFINE RE-OCCURING PROGRAM CONSTANTS.
- C.DEFINE TIME INTERVALS FOR WHICH THE GIVEN TRACKING STATIONS CLOUD RELEASE POINT AND CLOUD POSITION DURING THE TRACKING PERIOD ARE SATISFACTORY FOR THE INPUT VALUES OF THE FOLLOWING CONSTRAINTS...
  - 1. THE TARGET SLOUD IS NOT WITHIN THE SHADOW OF THE EARTH AT RELEASE TIME OR DURING THE EXPERIMENTAL PERIOD.
  - 2. THE RELATIVE ELEVATION LOOK ANGLE FROM EACH TRACKING STATION TO THE CLOUD WILL BE GREATER THAN THAT SPECIFIED IN INPUT, AT TIME OF RELEASE AND DURING THE EXPERIMENTAL PERIOD
  - S. THE RELATIVE ELEVATION ANGLE OF THE SJN FROM EACH TRACKING STATION IS BELOW THAT OF THE GIVEN CONSTRAINT,
  - 4. THE RELATIVE ELEVATION ANGLE OF THE MOON FROM FACH TRACKING STATION IS BELOW THAT OF THE GIVEN CONSTRAINT.
  - 5. THE SKY BACKGROUND BRIGHTNESS OF THE CLOUD DUE TO AIRGLOW, ZODIACAL LIGHT, AND STARLIGHT AS SEEN FROM EACH TRACKING STATION WILL BE LESS THAN THE INPUT REQUIREMENT.
- D.PROVIDE THESE ABOVE STATED TIME INTERVALS IN OUTPUT FORMAT.
- E, PROVIDE THE CAPABILITY FOR MULTIPLE CASE RUNS WITH VARYING RELEASE POINTS AND DRIFT RATES.
- F.COMBINE THESE ABOVE STATED TIME INTERVALS ON A DAILY BASIS. AS TO DEFINE A BAILY TIME PERIOD FOR WHICH ALL CONSTRAINTS WILL BE MET FOR ALL TRACKING STATIONS SIMULTANEOUSLY.
- G, CREATE A PLOT OF THESE COMBINED DAILY RELEASE WINDOWS.

THE PROGRAM HAS THE FOLLOWING OPTIONS ...

A.UP TO THELVE FIXED TRACKING STATIONS MAY BE INPUT.

B.IF A MOVING OR AIRCRAFT TRACKING STATION IS INPUT; THEN THE MAXIMUM NUMBER OF FIXED STATIONS ALLOHED IS ELEVEN. THE POSITION OF THE MOVING STATION AT RELEASE TIME AND AT HALF HOUR INCREMENTS INTO THE EXPERIMENTAL PERIOD MUST BE INPUT.

C.A MAXIMUM OF THREE HOURS FOR THE EXPERIMENTAL PERIOD MAY BE USED IN INCREMENTS OF ONE HALF HOUR.

D. NOMINAL VALUES FOR PROGRAM CALCULATION DATE PERIOD. GENERAL PRUGRAM OPTIONS; TRACKING STATIONS AND RELEASE POINT COURDINATES, AND THE VALUES FOR THE CONSTRAINTS CAN BE PRESET.

E.THE GENERAL OPTIONS FOR THE PROGRAM CONSIST OF THE FOLLOWING...

- 1. PERFORM THE PROGRAM CALCULATIONS.
- 2. CREATE A TAPE ON FILE 11 TO STORE THE SUN AND MOON DAILY TIME INTERVALS FOR THE GIVEN TRACKING STATIONS OR USE AN EXISTING TAPE READ IN ON TAPE FILE 11 IN ORDER TO SKIP THESE CALCULATIONS.
- 3. CREATE A TAPE ON FILE O7 OF THE DAILY TIME INTERVALS FOUND FOR EACH CONSTRAINT AND FOR EACH STATION AND/OR PRINT AN EXISTING TAPE THROUGH FILE O7.
- 4. CREATE A TAPE ON FILE 09 OF THE COMBINED DAILY RELEASE WINDOWS AND/OR PRINT AN EXISTING TAPE THROUGH FILE 09.
- 5. CREATE A TAPE FOR PLOTTING FROM THE DATA ON TAPE FILE 09 OR NOT.

THE FORMAT OF THIS MAIN PROGRAM IS TO ...

A.READ THE INPUTS.

6. PERFORM PROGRAM CALCULATIONS TO FIELD THE PROGRAM CONSTANTS

C, CALCULATE THE PARAMETERS FOR THE CONSTRAINTS NOT DEPENDENT UPON TIME.

D.FIND THE TIME INTERVALS FOR EACH CONSTRAINT AND STORE ON A DAILY BASIS.

E.PROVIDE THE REQUESTED PRINTED OUTPUT AND/OR PLOT TAPE.

F.REPEAT A THRU E FOR MULTIPLE CASE RUNS,
IN SELECTING THE OPTION NOT TO CALCULATE THEN B.,C.,AND D.ARE
UMITTED.FOR DETAILED EXPLANATION OF ENTIRE PROGRAM FUNCTIONS
SEE THE COMMENTS AVAILABLE WITH EACH SUPROUTIVE.

#### \*\*\*\*\*\*\*\*SYSTEMS INPUT FILES

FILE 05 - CARD READER

FILE 07 = IF OPTION 'ICALC' = 1 AND 'IPRT7 = 0

FILE 09 = IF OPTION 'ICALC' = 1 AND 'IPRT9 = 0

FILE 11 & IF OPTION 'IPRT11' = 1

```
******* *SYSTEMS OUTPUT FILES-
```

FILE 01 = IF (IPLOT) =0,1(NOTE TAPE FILE 01 MUST BE RECORDED AT 556 BPI)

FILE 06 = PRINTER

CONTAINS DATA FROM FILE O7 IF IPRT7 = 0 CONTAINS DATA FROM FILE 09 IF IPRT9 = 0

FILE 07 = IF \*ICALC\* = 0

FILE 09 = IF 'ICALC' = 0

FILE 11 = IF | | PRT11' = 0

# 

FILE 11 = FOR MORE THAN 1 CASE WITHIN JOB RUN.

FILE 12 - FOR MORE THAN 1 CASE WITHIN JOB RUN.

FILE 13 = ALMAYS REQUIRED.

#### 

ICALC -INTEGER CODE TO SIGNAL IF PROGRAM CALCULATIONS

-ARE REQUESTED

-EO: PERFORM PROGRAM CALCULATIONS

-E1:80 NOT PERFORM PROGRAM CALCULATIONS

IPHT7 -INTEGER CODE TO SIGNAL REQUEST PRINTING FILE 07

-EO.PRINT FILE 07 DATA

PRT9 -INTEGER CODE TO SIGNAL REQUEST PRINTING FILE 09

==0;PRINT FILE 09 DATA ==1;DO NOT PRINT FILE 09 DATA

-#1,00 NOT PRINT FILE 07 DATA

IPRT11 -INTEGER CODE TO SIGNAL REQUEST CREATING FILE 11 -DATA

-,0,00 NOT CREATE FILE 11 TADE USE EXISTING INPUT TTAPE ON FILE 11

-.1. CREATE FILE 11 TAPE -=2.00 NOT USE FILE 11

ICASE -CASE NUMBER (INTEGER)

IFINAL -INTEGER CODE TO DESIGNATE LAST INPUT CASE

-=0, MORE CASES TO FOLLOW

IPRT7 -INTEGER CODE TO SIGNAL REQUEST PRINTING FILE 07

LJUL -JULIAN DATE FOR CURRENT DATA

NDPJO - VUMBER OF DAYS PAST EROCH DATE TO DATE FOR

-STARTING CALCULATIONS (INTEGER)

NOTE -NUMBER OF DAYS PAST EROCH DATE TO DATE FOR

-STOPPING CALCULATIONS (INTEGER)

<b>LPOCH</b>	-JULIAN DATE OF JANUARY O OF YEAR DATA BEGINS ON -FILE 09
KVC	-RADIAL DISTANCE FROM BARTH SENTER TO RELEASE -POINT (ERU)
NRIFT	-THE SPACE-FIXED DRIFT OF CLOUD (DEG/HR)
h(2)	-ELEVATION CONSTRAINT (PADIANS)
K(6)	-CLDUD DRIFT RATE (RADIANS/HR)
R(7)	- VIVINUM TRACKING PERIOD AFTER RELEASE (HOURS)
NS	MARDORA SHT NI DEEL SUCTEMES TO PREMUM SHT-
NOS(12)	-AN ARRAY CONTAINING THE STATION NUMBERS USED
RTH	-CONVERSION FACTOR FROM RADIANS TO HOURS
HTR	-CONVERSION FACTOR FROM HOURS TO RABBANS
SUNL	-MEAN LONGITUDE OF THE SUN AT O HRS.UT.
GHA	-GREENHICH MEAN SIDEREAL HOUR ANGLE AT ZERO HOURS
HODAHC	-JNIVERSAL TIME (HRS) -RADIUS OF EARTH SHADOW REGION (RADIANS)
GAMMA	-COSINE OF ISHADOW!

#### \*

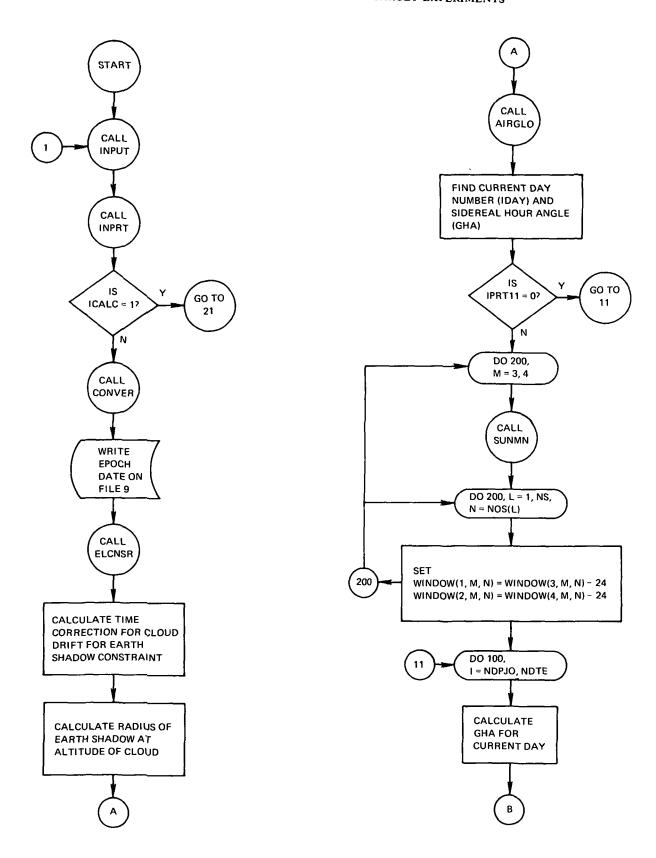
WINDOW(6,5,12)-THE DAILY RELEASE WINDOW START/STOP TIMES,
-1,3,5 FOR START TIMES
-2,4.6 FOR STOP TIMES
-20 INDEX FOR THE CONSTRAINT
- 1=EARTH SHADOW
- 2=ELEVATION
- 3=SUN
- 4=MUON
- 5=TOTAL SKY BACKGROUND BRIGHTNESS
-3RD INDEX FOR THE STATION NUMBER

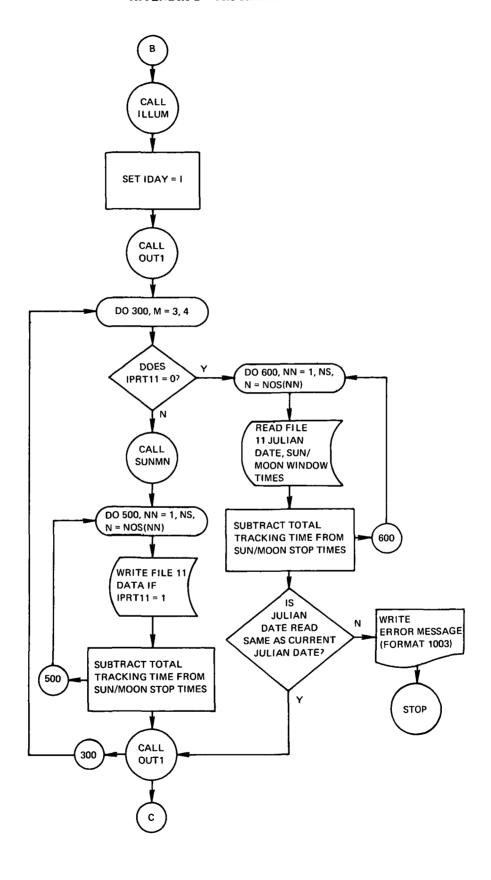
#### \*\*\*\*\*\*\*\*\*ESTRICTIONS=

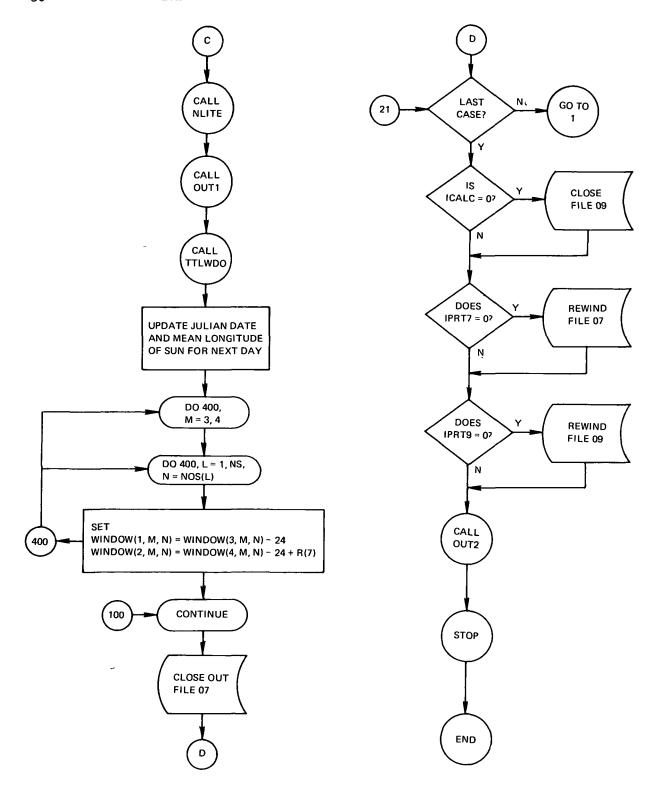
THOSE ALREADY NOTED UNDER METHOD. DETAILED RESTRICTIONS ON VARIOUS PHASES OF THE PROGRAM DEFINITION ARE NOTED IN EACH SUBROUTINE.

BAYNUM GDTOGC

```
TIME
ELÇNSR
       ELVDFT
AIRGLO
       EPAIR
SUNMN
ILLUM
       LIN1
GCZTC
       RDEPH
              EPHERMERIS TABLES
NLITE
       GCTOI
       TRACK
       STRLIT
       ZODLIT
              ITE
              BJEATS
OUT1
       CALDAT
TTLWDO
       ICAS
CUT2
       TTL TPE
OUTTPE
       BAYNUM
       PLTRTN
MOPLOT
              DATE
              CALDNR
              MOCALD
              PLOT
```







```
*********BLOCK DATA SUBPROGRAM********
*********NAŞA WALLOPS VERSION OF 02/01/70
********LANGUAGE=FORTRAY IV
************ 625
*******PURPOSE-
        TO DEFINE NOMINAL INPUT PARAMETERS AND TO DEFINE CONVERSION
       FACTORS FOR USE IN THE BICHINDOW PROGRAM.
*******METHOD
       DEFINE CONSTANTS AND NOMINAL PARAMETERS THROUGH DATA STATEMENTS
#######INPUT-
       NONE
KMONTH
                     -MOVIH NUMBER FOR STARTING CALCULATIONS
       KDAY
                     -DAY
                            NUMBER FOR STARTING CALCULATIONS
       KYEAR
                     -YEAR
                            NUMBER FOR STARTING CALCULATIONS
       LMONTH
                     -MONTH NUMBER FOR STOPRING CALCULATIONS
       LDAY
                     -DAY
                            NUMBER FOR STOPRING CALCULATIONS
                     -YEAR NUMBER FOR STOPRING CALCULATIONS
       LYEAR
       KMO
                     -MONTH PLOTTING AND/OR PRINTING TO BEGIN
       KDA
                     -DAY
                            PLOTTING AND/OR PRINTING TO BEGIN
       KYR
                     -YEAR
                            PLOTTING AND/OR PRINTING TO BEGIN
                     -MONTH PLOTTING AND/OR PRINTING TO END
       LMO
       ĻDA
                     -DAY
                            PLOTTING AND/OR RRINTING TO END
       LYR
                     -YEAR PLOTTING AND/OR PRINTING TO END
       ICALC
                     -INTEGER CODE TO SIGNAL IF PROGRAM CALCULATIONS
                     -ARE REQUESTED
                     -=0%
                                PERFORM RROGRAM CALCULATIONS
                     -=1,DO VOT PERFORM PROGRAM CALCULATIONS
       IPRT7
                     FINTEGER CODE TO SIGNAL REQUEST PRINTING FILE 07
                     TROPPRINT FILE OF DATA
                     -$1,00 NOT PRINT FILE OF DATA
       1PHT9
                     -INTEGER CODE TO SIGNAL REQUEST PRINTING FILE 09
```

-DATA

-= OTPRINT FILE. 09 DATA -#1;DO NOT PRINT FILE 09 DATA -INTEGER CODE TO SIGNAL REQUEST CREATING FILE 11 IPRT11 -DATA -BOTCREATE FILE 11 TAPE -=1,00 POT CREATE FILE 11 TAPE USE EXISTING INPUT -TAPE ON FILE 11 -=2; BO NOT USE FILE 11 IPLOT -INTEGER CODE TO SIGNAL REQUEST PLOTTING DATA -EG; CREATE A TAPE FOR PLOTTING DATA FOR A CALENDAR YEAR THROUGH FILE 01 AT 556 BPI -#1; CREATE A TAPE FOR PLOTTING DATA FOR A CALENDAR MONTH THROUGH FILE 01 AT 556 BPI -=2. DO NOT CREATE A PLOT TAPE -GEODETIC LATITUDE OF RELEASE POINT(DEG) PHIPDG LAMPDG -LONGITUDE OF RELEASE ROINT (DEG) -ALTITUDE OF RELEASE POINT ABOVE EARTH SURFACE HEIGHT -(EqU) -WINIMUM ELEVATION LOOK ANGLE FROM EACH STATION RESTR(2) -TO THE RELEASE POINT (DEG) -MAXIMUM SUN ELEVATION LOOK ANGLE FROM EACH RESTR(3) -TRACKING STATION (DEG) HAXIMUM MOON ELEVATION LOOK ANGLE FROM EACH RESTR(4) -TRACKING STATION (DEG) -MAXIMUM TOTAL: SKY BACKGROUND BRIGHTNESS OF THE RESTR(5) \*RECEASE POINT AS SEEN FROM EACH TRACKING STATION -(RAYLEIGHS) RESTR(6) -CONSTANT LONGITUDINAL DRIFT RATE OF THE CLOUD -AFTER RELEASE RELATIVE TO THE EARTH (KM/SEC) RESTR(7) -MINIMUM TRACKING PERIOD REQUIRED (HRS) RESTR(8) -ONE-HALF OF CLOUD GROWTH RATE AFTER RELEASE \*RELATIVE TO THE EARTH (KM/SEC) NS -THE NUMBER OF STATIONS USED IN THE PROGRAM NOS(12) -AN ARRAY CONTAINING THE STATION NUMBERS USED NAME(3,12) -NAME OF TRACKING STATIONS USED

PHI(12) -GEODETIC LATITUDE OF TRACKING STATION (DEG)

LAMBDA(12) -LONGITUDE OF TRACKING STATION (DEG)

ALT(12) -ALTITUDE OF TRACKING STATION ABOVE EARTH SURFACE -(FT)

MOVE(12) = COBE NUMBER TO DETERMINE IF STATION COURDINATES

TARE FOR EARTH FIXED STATION OR FOR AIRCRAFT

TO:FOR FIXED STATION

TIFOR AIRCRAFT

PNAME(3,7) #ALRHANUMERIC DESCRIPTION FOR AIRCRAFT POSITION

```
-DURING TRACKING PERIOD
        PLAT(7)
                     -GEODETIC LATITUDE OF AIRCRAFT DURING
                     -EXPERIMENTAL PERIOD (DEG)
        PLON(7)
                     -LONGITUDE OF AIRCRAFT BURING EXPERIMENTAL PERIOD
                     -(D5G)
        PALT(7)
                     -ALTITUDE OF AIRCRAFT DURING EXPERIMENTAL PERIOD
                     -(DEG)
        LTR
                     -SONVERSION FACTOR FROM DEGREES TO RADIANS
        RTD
                     -CONVERSION FACTOR FROM RADIANS TO DEGREES
                     -CONVERSION FACTOR PROM HOURS TO RADIANS
        HTR
        RTH
                     -CONVERSION FACTOR FROM RADIANS TO HOURS
        AU
                     -CONVERSION FACTOR FROM ASTRONOMICAL UNITS TO
                     -EARTH RADII JNITS
                     -APPROXIMATE PERIOD OF SUN MOTION (HRS)
        PELTA(3)
        DELTA(4)
                     (ARH) NOITCE NOCE TO DOING STAPLIXCHAGE
        ERM
                     -CONVERSION FACTOR FROM EARTH RADII UNITS TO
                     -KILOMETERS
        HALFPI
                     -VALUE OF 90 DEGREES IN RADIANS
        WINDOW(6,5,12) - THE DAILY RELEASE WINDOW START/STOP TIMES.
                     -1ST INDEX FOR STORING START/STOP TIMES.
                     -1.3.5 FOR START TIMES
                     -2,4,6 FOR STOP TIMES
                     THIARTENCE BHT FOR XBONI DNS-
                     - 1 EARTH SHADOW
                       2=ELEVATION
                       3=SJV
                       4=4004
                     - 5=TOTAL SKY BACKGROUND BRIGHTNESS
                     -3RD INDEX FOR THE STATION NUMBER
       LINE
                     -LINE COUNT USED TO SKEP TO VEW PAGE AND PRINT
                     -HEADING
********RESTRICTIONS
       NONE KNOWN
*******SUBPROGRAMS REGULRED-
       NONE
*********NASA WALLOPS VERSION OF 02/01/70
*******LANGUAGE=FORTRAY IV
#######MACHINE-GE 625
******PURPOSE-
       TO READ INPUT PARAMETERS FROM CARD READER USING THE READING
      PROCESS DEFINED THROUGH SUBROUTINE VXEARD!
```

\*\*\*\*\*\*METHODo

THIS SUBROUTINE READS INPUT CARDS IN ANY ORDER EXBEPT FOR THE 'I' OR LAST CARD, EACH CARD IS FIRST "LOOKED AT! USING SUBROUTINE NXCARD, COLOMN 1 JF EACH CARD CONTAINS THE CODE LETTER SIGNIFYING WHAT VARIABLES ARE CONTAINED ON THE CARD, THE CARD CODE IS CHECKED AND THE CARD IS READ INTO THE PROGRAM BY THE CORRECT FORMAT AS DETERMINED FROM THE CARD CODE, IT IS NOT NECESSARY TO DEFINE ALL INPUT PARAMETERS REQUIRED TO GENERATE PROGRAM DATA, EACH INPUT VARIABLE IS DEFINED IN THE BLOCK DATA SUBPROGRAM FOR NOMINAL VALUES, CHANGES TO ANY ONE OR MORE NOMINAL VALUE DEFINED ON ONE CARD REQUIRES THAT ALL VARIABLES SPECIFIED FOR THAT CARD MUST BE INCLUDED, OMISSION OF ANY VARIABLE FROM A CARD MILL BE INTERPRETED TO MAVE A VALUE OF ZERO AND HILL OVERRIDE THE NOMINAL VALUE STORED THROUGH THE BLOCK BATA SUBPROGRAM.

#### 

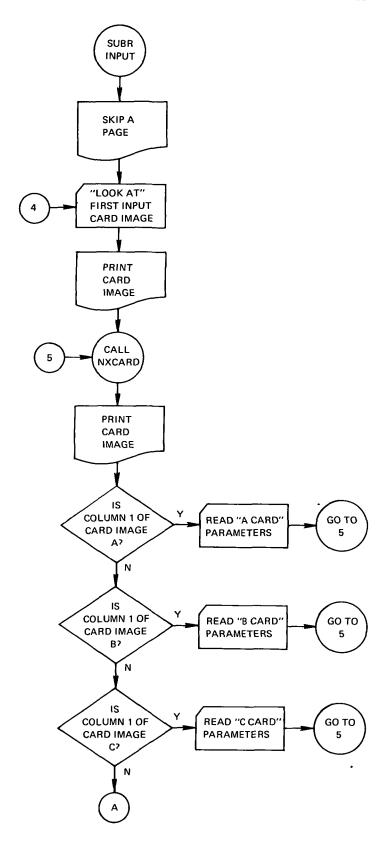
VARIABLES ARE CARD INDUTS WITH THE FOLLOWING SPECIFIC CARD AND COLUMN LOCATIONS, ALL VARIABLES SPECIFIED AS INTEGERS MUST BE RIGHT-JUSTIFIED, THOSE VARIABLES NOT SPECIFIED AS INTEGERS, HOLLERITH, OR ALPHANUMERIC ARE FLOATING POINT AND MUST BE READ IN THE UNITS NOTED.

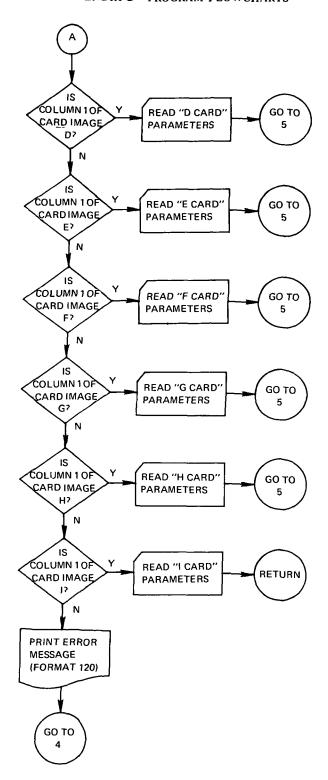
```
A CARD - START/STOP DATE
                               (HOLLERITH)
    01
    D3=04 = STARTING MONTH
                              (INTEGER)
    06=07 = STARTING DAY
                               (INTEGER)
    09=12 = STARTING YEAR
14-15 = FINAL MONTH
                              (INTEGER)
                               (INTEGER)
    17-18 # FINAL DAY
                              (INTEGER)
    20=23 # FINAL YEAR
                              (INTEGER)
B CARD - START/STOP DATE FOR OUTPUT
           # 8
                              (HOLLERITH)
    01
    03=04 # STARTING MONTH
                              (INTEGER)
    06=07 & STARTING DAY
                              (INTEGER)
    19-12 # STARTING YEAR
                              (INTEGER)
    14=15 # FINAL MONTH
17=18 # FINAL DAY
                              (INTEGER)
                              (INVEGER)
    20=23 # FINAL YEAR
                              (INVEGER)
C CARD - PROGRAM OPTIONS
           = C
                              (HOULERITH)
    Ò1
           PROGRAM CALCULATION
               BO CALCULATIONS FOR DATES SHOWN
                SKIP CALCULATIONS-ONLY PRINT FILES 01,07,09
           PRIST FILE 07
    Ó6
                PRINT FILE 07
           = 0
                DO NOT PRINT FILE OF
           PRINT FILE 09
    ã8
                PRINT FILE 09
                PO BUT TRINT FILE OF
           SUCITATION CALCULATIONS
    10
                USE FILE 11 FOR WINDOW TIMES FOR SUN AND MOON
                BREATE FILE 11 ON SUN AND MOON TIMES
          . 1
                DU NOT USE FILE 11
           CALCOMP PLOTTER OPTION
    12
                GENERATE CALCOMP PLOT DATA ON FILE D1 FOR A
                BALENDAR YEAR
                GENERATE CALCOMP. PLOT DATA ON FILE 01 FOR A
          CALENDAR MONTH

B Z BO NOT GENERATE BALBOMP OUTPUT
```

D CARD - LOCATION OF RELEASE POINT

```
(HOLLERITH)
                                                               (DEG)
               06-15 * GEODETIC LATITUDE OF RELEASE POINT
               16=25 . LONGITUDE OF RELEASE POINT
                                                               (DEG)
               26035 & ALTITUDE ABOVE THE BARTHIS SURPACE
                                                              ((ERU)
          E CARD . BRIGHTNESS AND ELEVATION CONSTRAINTS
                    * E
                                                              (HOLLERITH)
               Õ1
               U6-10 # MINIMUM ELEVATION OF RELEASE POINT
                                                              (DEG)
               11=15 = DEPRESSION ANGLE OF THE SUN
16=20 = DEPRESSION ANGLE OF THE MOON
21=25 = TOTAL SKY BACKGROUND BRIGHTNESS
                                                               (DEG)
                                                               (DEG)
                                                               (RAYLEIGHS)
               28=30 # DRIFT RATE OF CLOUD
                                                              (KM/SEC)
               31-35 # TOTAL TRACKING TIME
                                                               (HRS)
               36-40 # 1/2 CLOUDIS GROWTH RATE
                                                               (KM/SEC)
         F CARD - STATIONS TO BE COMBINED
               01
                                                           (HOLLERITH)
              03-04 = THE NUMBER OF STATIONS TO COMBINE
              D6-07 . THE NUMBER OF THE FIRST STATION
           G CARD - TRACKING SITE POSITIONAL BATA
               Ĉ1
                     ■ G
                                                           (HOLLERITH)
               63-04 5 THE CODE NUMBER OF THIS STATION (INTEGER LT. 12)
               05=06 #CODE FOR FIXED OR AIRCRAFT TRACKING STATION (INT.)
                     =0, STATION IS FIXED
               #1, STATION IS AIRCRAFT OB-25 # THE NAME OF THE TRABKING SITE
                                                           (ALPHANUMERIC)
               26-35 # GEODETIC LATITUDE
                                                           (DEG)
               36=45 # Lansitune
                                                           (DEG)
               4655 & ALTITUE
                                                            (FEET)
           H CARD - POSITIONS OF AIRCRAFT DURING EXPERIMENTAL PERIOD
                    ■ H
                                                           (HOLLERITH)
               61
               13=04 # THE NUMBER OF THE ARRORAFT STATION (INTEGER)
               05=06 a INDEX NUMBER FOR AIRCRAFT POSITION DURING
                        THE EXPERIMENTAL PERIOD THE AIRCRAFT POSITION
                        MUST BE IN HALF HOUR INCREMENTS WITH THE FIRST
                        INDEX =2 FOR THE POSITION AT .5 HRS. AFTER
                        RELEASE (INTEGER)
               D8225 . THE NAME OF THE TRACKING SITE
                                                           (ALPHANUMERIC)
               26-35 & GEOBETIC LATITUDE
                                                           (DEG)
               36345 A LONGITUDE
                                                           (DEG)
               4655 - ALTITUDE
                                                           (FT)
           I CARD - FINAL CARD TO SPECIFY END OF CASE
                    # I (HOLLERITH)
               02=05 # CASE NUMBER
                                                           (INTEGER)
               86=07 = CODE FOR FINALI INPUT CASE
                     #O.MORE CASES TO FOLLOW
                     #1. THIS IS THE PINAL GASE
********OUTPUT-
         NONE
*******RESTRICTIONS=
        A BLANK CARD OR DUMMY TITLE MUST PREBEDE ANY INPUT DATA FOR
        EACH CASE, THE !! BARD MUST ALWAYS BE THE LAST CARD OF EACH CASE
        A PROGRAM EXECUTE USING ALL NOMINAL VALUES MUST HAVE AT LEAST
        THE BLANK CARD AND THE III CARD FOR INPUT.
*******SUBPRDGRAMS REDUIRED-
        NXCARD
```





ALL VARIABLES SPECIFIED IN SUBROUTINE INPUT ARE PRINTED IN A MANNER TO DESCRIBE FULLY TO THE PROGRAM USER THE INPUTS USED TO GENERATE PROGRAM BUTPUTS, THE FORMAT GENERATOR ROUTINE IS USED IN LIEU OF CUMBERSOME NORMAL; FORMAT STATEMENTS FOR PRINT FORMATS.

-MONTH NUMBER FOR STARTING CALCULATIONS KMONTH NUMBER FOR STARFING CALCULATIONS KDAY -DAY -YEAR NUMBER FOR STARTING CALCULATIONS KYEAR -MONTH NUMBER FOR STOPPING CALCULATIONS LMONTH NUMBER FOR STOPPING CALCULATIONS LDAY -BAY LYEAR -YEAR NUMBER FOR STOPPING CALCULATIONS KMO MIDDE OF DESTRICE ACCORD DESTRUCTED HTPOM-PLOTTING AND/OR PRINTING TO BEGIN KDA -DAY KYR FYEAR PLOTTING ANDFOR PRINTING TO BEGIN LMO -MONTH PLOTTING AND/OR PRINTING TO END LDA -DAY PLOTTING ANDFOR PRINTING TO END LYR -YEAR PLOTTING AND/OR PRINTING TO END ICALC -INTEGER CODE TO SIGNAL IF PROGRAM CALCULATIONS -ARE REQUESTED PERFORM PROGRAM CALCULATIONS -=1.00 931 PERFORM PROGRAM CALCULATIONS -=0. IPRTT -INTEGER CODE TO SIGNAL REQUEST PRINTING FILE OF -DATA -=0 PRINT FILE OF DATA -=1:00 NOT PRINT FILE 87 DATA IPRTO -INTEGER CODE TO SIGNAL REQUEST PRINTING FILE 09 -DATA +=0 PRINT FILE 09 DATA ==1,00 NOT PRINT FILE 89 DATA IPLOT -INTEGER CODE TO SIGNAL REQUEST PLOTTING DATA -=0; CREATE A TAPE FOR PLOTTING DATA FOR A CALENDAR YEAR THROUGH FILE 01 AT 556 BPI

ER1 CREATE A TAPE	FOR PLOTTING	DATA FOR A
CALENDAR MONTH	THROUGH FILE A PLOT TAPE	01 AT 556 BPI

ICASE -INTEGER VALUE OF CASE MUMBER

PHIPDG \*GEOBETIC LATITUDE OF BELEASE POINT(DEG)

LAMPDG -LONGITUDE OF RELEASE, ROINT (DEG)

HEIGHT -ALTITUDE OF RELEASE POINT ABOVE EARTH SURFACE -(ERU)

RESTR(2) -MINIMUM ELEVATION LOOK ANGLE FROM EACH STATION +TO THE RELEASE POINT (DEG)

RESTR(3) -MAXIMUM SUN ELEVATION LOOK ANGLE FROM EACH STRACKING STATION (DEG)

RESTR(4) -MAXIMUM MOON ELEVATION LOOK ANGLE FROM EACH TRACKING STATION (DEG)

RESTR(5) #MAXIMUM TOTALISKY BACKGROUND BRIGHTNESS OF THE #RELEASE POINT AS SEEN FROM EACH TRACKING STATION #(RAYLEIGHS)

RESTR(6) = CONSTART LONGITUDIRAL DRIFT RATE OF THE CLOUD FAFTER RELEASE RELATIVE TO THE EARTH (KM/SEC)

RESTR(7) +MIMIMUM TRACKING PERIOD REGUIRED (HRS)

RESTR(8) #ONE-MALF OF CLOUD GROWTH RATE AFTER RELEASE -RELATIVE TO THE EARTH (KM/SEC)

NS THE NUMBER OF STATIONS USED IN THE PROGRAM

NOS(12) #AN ARRAY CONTAINING THE STATION NUMBERS USED

NAME (3,12) - MAME OF TRACKING STATEONS USED

PHI(12) -GEODETIC LATITUDE OF TRACKING STATION (DEG)

LAMBDA(12) -LONGITUDE OF TRACKING STATION (DEG)

ALT(12) #ALTITUDE OF TRACKING STATION ABOVE EARTH SURFACE #(FT)

MOVE(12) -CODE NUMBER TO DETERMINE IF STATION COORDINATES

\*\*ARE FOR EARTH FIXED STATION OR FOR AIRGRAFT

-\*\*O.FOR FIXED STATION

-\*\*1.FOR AIRCRAFT

PNAME(3,7) #ALPMANJMERIC DESCRIPTION FOR AIRCRAFT POSITION -BURING EXPERIMENTAL PERIOD

PLAT(7) -GEODETIC LATITUDE OF AIRCRAFT DURING -EXPERIMENTAL PERIOD (DEG)

PLON(7) #LONGITUDE OF AIRCREFT DURING EXPERIMENTAL PERIOD #(DEG)

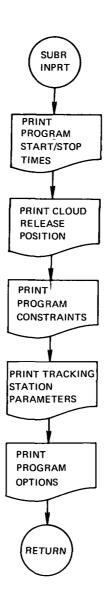
PALT(7) #4LTITUDE OF AIRCREFT DURING EXPERIMENTAL PERIOD #(DEG)

\*\*\*\*\*\*\*QUTPUT=

ON FILE 06-PRINTER ALL VARIABLES LISTED ABOVE ARE USED BOR OUTPUT

\*\*\*\*\*\*\*\*RESTRICTIONS=

FORMAT GENERATOR IS A GE-625 SYSTEM ROUTINE, USE OF THIS STORMAT THESE FORMAT THESE FORMAT GENERATORS BE CHANGED:



\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*LANGUAGE=FORTRAN IV

\*\*\*\*\*\*\*\*\*\* 625

\*\*\*\*\*\*PURPOSE-

TO CONVERT STATION AND CLOUD PARAMETERS TO NECESSARY RECURRING VARIABLES USED IN THE ENTIRE PROGRAM

#### \*\*\*\*\*\*\*METHODe

GIVEN THE GEODETIC COORDINATES OF THE RELEASE POINT AND OF THE STATIONS, CONVERT TO GEOCENTRIC, ALSO GALCULATE THE FOLLOWING

- A.THE RADIUS VECTORS FOR THE RELEASE POINT AND STATIONS IN ERU
- B. THE SINES AND COSINES OF THE GEOCENTRIC COORDINATES
- C. THE SECCENTRIC X.Y.Z COMPONENTS IN ERU
- C. THE RESTRICTIONS IN DEGREES TO RADVANS
- D. THE SPACE FIXED DRIFT OF THE CLOUD IN RADIANS/HOUR
- E. THE VECESSARY DATES REFERENCED TO AN EPOCH DATE OF JANUARY O OF THE YEAR REQUESTED TO BEGIN CALCULATIONS;
- F. THE MEAN LONGITUDE OF THE SUN FOR THE FIRST DAY TO BE CALCULATED.
- G.ROUGH ESTIMATE OF THE SUN AND MOON TIME INTERVALS FOR THE FIRST BAY FOR EACH STATION.

### 

LMONTH	WHONTH NUMBER FOR STOPRING CALCULATIONS
LDAY	-DAY VUMBER FOR STOPRING CALCULATIONS
LYEAR	MYEAR NUMBER FOR STOPRING CALCULATIONS
KMONTH	-MONTH NUMBER FOR STARTING CALCULATIONS
KDAY	-DAY NUMBER FOR STARFING CALCULATIONS
KYEAR	-YEAR NUMBER FOR STARFING CALCULATIONS
PHIPDG	-GEODETIC LATITUDE OF RELEASE POINT(DEG)
LAMPDG	-LONGITUDE OF RELEASE ROINT (DEG)
HEIGHT	-ALTITUDE OF RELEASE POINT ABOVE EARTH SURFACE +(EQU)
RESTR(2)	-MINIMUM ELEVATION LOOK ANGLE FROM EACH STATION -TO THE RELEASE POINT (BEG)
RESTR(3)	-MAXIMUM SUN ELEVATION LOOK ANGLE FROM EACH -TRACKING STATION (DEG)

RESTR(4)	-MAXIMUM MOON ELEVATION LOOK ANGLE FROM EACH -TRACKING STATION (DEG)
RESTR(5)	-WAXIMUM TOTAL: SKY BACKGROUND BRIGHTNESS OF THE -RELEASE POINT AS SEEN FROM EACH TRACKING STATION -(RAYLEIGHS)
RESTR(6)	-CONSTANT LONGITUDINAL DRIFT RATE OF THE CLOUD -AFTER RELEASE RELATIVE TO THE EARTH (KM/SEC)
RESTR(7)	-WIMINUM TRACKING PERIOD REDJIRED (HRS)
RESTR(8)	-ONE-HALF OF CLOUD GROWTH RATE AFTER RELEASE -RELATIVE TO THE EARTH (<4/580)
NS	THE NUMBER OF STATION JSED IN THE PROGRAM
NOS(12)	-AN ARRAY CONTAINING THE STATION NUMBERS USED
PHI(12)	-GEODETIC LATITUDE OF TRACKING STATION (DEG)
LAMBDA(12)	"LONGITUDE OF TRACKING STATION (DEG)
ALT(12)	-ALTITUDE OF TRACKING STATION ABOVE EARTH SURFACE - (FT)
MOVE(12)	-CODE NUMBER TO DETERMINE IF STATION COORDINATES -ARE FOR EARTH FIXED STATION OR FOR AIRCRAFT -TO, FOR FIXED STATION TELLIFOR AIRCRAFT
PNAME(3,7)	#ALPHANUMERIC DESCRIPTION FOR AIRCRAFT POSITION #DURING EXPERIMENTAL PERIOD
PLAT(7)	#GEODETIC LATITUDE OF AIRCRAFT DURING #EXPERIMENTAL PERIOD (DEG)
PLON(7)	*LONGITUDE OF AIRCRAFT DURING EXPERIMENTAL PERIOD
PALT(7)	-ALTITUDE OF AIRCRAFT DURING EXPERIMENTAL PERIOD -(DEG)
DTR	-CONVERSION FACTOR FROM DEGREES TO RADIANS
RTH	-CONVERSION FACTOR FROM RADIANS TO HOURS
ERM	-conversion factor from Earth Radii units to mkicometers
+OUTPUT-	
DJUL	#JULIAN DATE FOR CURRENT DATA
NDPJu	-TUMBER OF DAYS PAST EROCH DATE TO DATE FOR -STARTING CALCULATIONS (INTEGER)
NDTE	-NUMBER OF DAYS PAST EROCH DATE TO BATE FOR -STOPPING CALCULATIONS (INTEGER)
EPOCH	-JULIAN DATE OF JANUARY O OF YEAR DATA BEGINS

SINCLT -SIME OF RELEASE POINT'S GEOCENTRIC LATITUDE

COSCLT	-COSINE OF RELEASE POINT'S GEOCENTRIC LATITUDE
SINCLY	STATE OF REPERSE BOILDS TONGE
COSCLN	-COSINE OF RELEASE ROINT'S LONGITUDE
RVC	-RADIAL DISTANCE FROM GARTH CENTER TO RELEASE
ÇGCX	-GEOCENTRIC X COMPONENT OF RELEASE ROINT (ERU)
CGCY	-GEOCENTRIC Y COMPONENT OF RELEASE POINT (ERU)
CGCZ	-GEOCENTRIC Z COMPONENT OF RELEASE POINT (ERU)
<b>PHIP</b>	"GEOCENTRIC LATITUDE OF RELEASE POINT (RADIANS)
RLAMDA	-LONGITUDE OF RELEASE MOINT (RADIANS)
R(2)	-ELEVATION CONSTRAINT (RADIANS)
R(3)	-SUN ELEVATION CONSTRAINT (RADIANS)
R(4)	(SNAIDAR) TVIARTENDO NCITAVELE NOOM-
R(5)	-INPUT VALJE FOR TOTAL SKY BACKGROUND BRIGHTNESS -(rayleighs)
R(6)	-CLOUD DRIFT RATE (RADIANS/HR)
R(7)	-WINIMUM TRACKING PERIOD AFTER RELEASE (HOURS)
R(8)	-ONE-HALF OF CLOUD GROWTH RATE (RADIANSYHR)
SINSLT(12)	SIVE OF TRACKING STATION'S GEOCENTRIC LATITUDE
COSSLT(12)	-COSINE OF TRACKING STATION'S GEOCENTRIC LATITUDE
SINSLN(12)	- SINE OF TRACKING STATION'S LONGITUDE
COSSLN(12)	-COSINE OF TRACKING STATION'S LONGITUDE
RVS(12)	-RADIUS VECTOR FROM EARTH CENTER TO TRACKING -STATION (ERU)
SGCX(12)	-GEOCENTRIC X COMPONENT OF TRACKING STATION (ERU)
SGÇY(12)	-GEOCENTRIC Y COMPONENT OF TRACKING STATION (ERU)
SGCZ(12)	-GEOCENTRIC Z COMPONENT OF TRACKING STATION (ERU)
RPHI(12)	#GEOCENTRIC LATITUDE OF TRACKING STATION (RADIANS
RLAMD(12)	-LONGITUDE OF THE TRACHING STATION (RADIANS)
SINLAT(7)	-SIVE OF ALRCRAFT GEOCENTRIC LATITUDE DURING -EXPERIMENTAL PERIOD
COSLAT(7)	
V	-COSINE OF AIRCRAFT GE®CENTRIC LATITUDE DURING -EXPERIMENTAL PERIOD

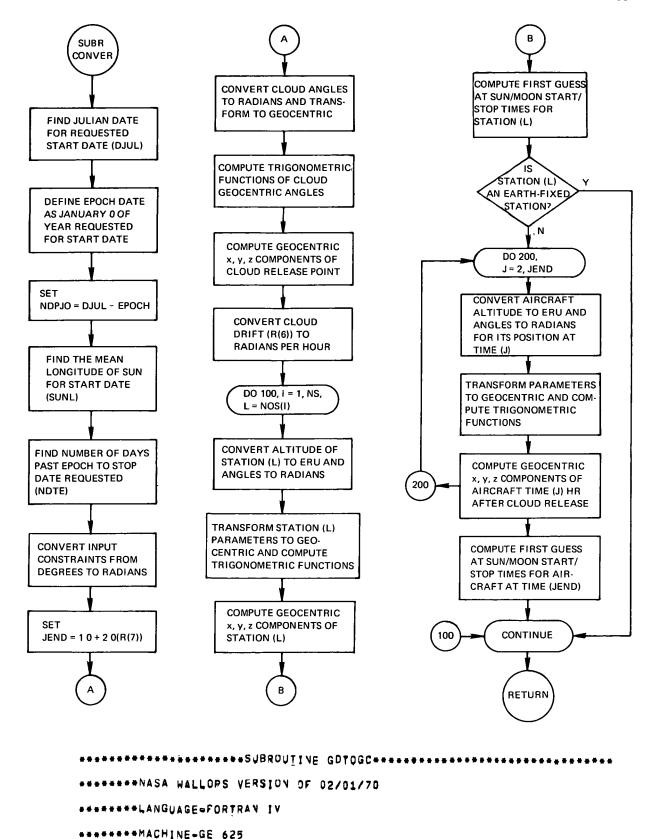
	-COSINE OF AIRCRAFT LONGITUDE DURING EXPERIMENTAL -PERIOD
RVA(7)	-PISTANCE FROM EARTH CENTER TO AIRCRAFT DURING -EXRERIMENTAL PERIOD (ERU)
AGÇX(7)	-GEOCENTRIC X COMPONENT OF AIRCRAFT POSITION -DURING EXPERIMENTAL PERIOD (ERU)
AGCY(7)	#GEOCENTRIC Y COMPONENT OF AIRCRAFT POSITION #DURING EXPERIMENTAL PERIOD (EQU)
AGCZ(7)	-GEOCENTRIC Z COMPONENT OF AIRCRAFT POSITION - BURING EXPERIMENTAL PERIOD (ERU)
RLAT(7)	-GEOCENTRIC LATITUDE OF AIRCRAFT DURING' -EXPERIMENTAL PERIOD (RADIANS)
· · ·	-LONGITUDE OF AIRCRAFT DURING EXPERIMENTAL PERIOD - (RADIANS)
SUNL	-MEAN LANGITUDE OF THE SUN AT 0 HRS.UT. FOR 1ST -DAY (DEG)
WINDOW(6,5,12	)=THE DAILY RELEASE WINDOW START/STOP TIMES, =1.3.5 FOR START TIMES =2.4.6 FOR STOP TIMES =2.00 INDEX FOR THE CONSTRAINT = 1 = EARTH SHADOW = 2 = ELEVATION = 3 = SUN = 4 = MOON = 5 = TOTAL SKY BACKGROWND BRIGHTNESS =3RD INDEX FOR THE STATION NUMBER
JEND	-NUMBER OF DISCRETE VALUES STORED FOR -EXPERIMENTAL PERIOD DATA

#### \*\*\*\*\*\*\*\*\*RESTRICTIONS

THE ESTIMATED TIME PERIODS CALCULATED FOR THE SUN AND MOON ARE FOR APPROXIMATE TIMES FOR THE OCCUPENCE OF ASTRONOMICAL THILIGHT AND FOR THE MOON TO BE AT THE TRACKING STATION'S LOCAL HORIZON. ANY OTHER RELATIVE ELEVATION ANGLE OF THESE TWO HEAVENLY BODIES TO EACH TRACKING STATION WHICH IS QUITE DIFFERENT WILL REQUIRE A PROGRAM GHANGE, THE COEFFICIENTS 19,0 AND 5.0 ARE THE APPROXIMATE TIMES FOR ASTRONOMICAL THILIGHT AND THE COEFFICIENTS 11.5 AND 0.0 ARE THE APPROXIMATE COEFFICIENTS FOR MOONSET AND MOONRISE, BOTH ARE FOR A POINT OF 0 DEGREES LATITUDE AND 0 DEGREES LONGITUDE.

THE GEODETIC EARTH MODEL USED IS THE FISCHER EARTH MODEL WITH AN AVERAGE EARTH RADIUS OF 6371,024 KILOMETERS.

•••••\*\*SUBPROGRAMS REQUIREDGDTOGC



\*\*\*\*\*\*PURPOSE-

TO CONVERT GEODETIC COORDINATES TO GEOCENTRIC COORDINATES

\*\*\*\*\*\*\*\*METHOD OF ATTACKS

GIVEN THE GEODETIC LATITIDE AND ALTITUDE OF A POINT ABOVE THE EARTH'S SURFACE, USE THE DIRECT METHOD OF E. EVERTON TO FIND THE GEOCENTRIC LATITUDE AND RADIUS VESTOR FROM EARTH CENTER USING AN EARTH MODEL #HOSE SEMI-MAJOR AXIS IS 6378,166 KM AND WHOSE FLATTENING IS 1,/298.30

\*\*\*\*\*\*\*REQUIRED INPUT

ALT -ALTITUDE ABOVE EARTH'S SURFACE (ERU)

GDLAT -GEODETIC LATITUDE (RADIANS)

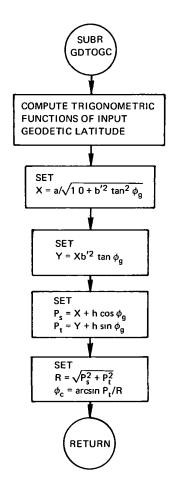
R GRADIUS VECTOR FROM EARTH CENTER (ERJ)

DLAT GEOCENTRIC LATITUDE (RADIANS)

NONE KNOWN

\*\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED=

NONE



\*\*\*\*\*\*\*\*\* ASA WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*\*\* IV

\*\*\*\*\*\*\*\*\*ACHINE-GE 625

\*\*\*\*\*\* PURPOSE»

TO DETERMINE IF THE TARGET CLOUD WILL BE VIEWED AT AN ELEVATION ANGLE GREATER THAN THE GIVEN CONSTRAINT (R(3)) DURING THE ENTIRE EXPERIMENTAL PERIOD.

\*\*\*\*\*\*\*METHODe

FROM EACH TRACKING STATION, A REGION BAN BE DEFINED WITHIN WHICH ALL POINTS AT ALTITUDE OF THE TARGET CLOUD CAN BE VIEWED AT AN ELEVATION ANGLE GREATER THAN THE GIVEN CONSTRAINT, THE ARC RADIUS OF THIS REGION WITH CENTER AT THE TRACKING STATION IS FOUND. THE PROJECTION POINT OF THE TRACKING STATION AND OF THE CLOUD IS USED, THE ARC DISTANCE FROM THESE PROJECTED POINTS IS THEN CALCULATED AND IF THIS ARC DISTANCE IS LESS THAN THE ARC RADIUS OF THE DEFINED REGION THEN THE CONSTRAINT IS MET FOR TIME OF RELEASE; SUBROUTIVE ELVOFT IS THEN JSED TO BETERMINE IF THIS GIVEN CONSTRAINT WILL BE MET FOR THE EXPERIMENTAL PERIOD.

NS	THE NUMBER OF STATIONS USED IN THE PROGRAM
NOS(12)	-AN ARRAY CONTAINING THE STATION NUMBERS USED
RVC	TRADIAL DISTANCE FROM GARTH CENTER TO RELEASE SPOINT (ERU)
SINCLT	SINE OF RELEASE ROINT'S GEOCENTRIC LATITUDE
COSCLT	-COSINE OF RELEASE POINT'S GEOCENTRIC LATITUDE
SINCLN	SINE OF RELEASE POINT'S LONGITUDE
COSCLN	-COSINE OF RELEASE POINT'S LONGITUDE
NAME(3,12)	-NAME OF TRACKING STATIONS USED
HVS(12)	-RADIUS VECTOR FROM EARTH CENTER TO TRACKING -STATION (ERU)
SINSLT(12)	-SINE OF TRACKING STATION'S GEDCENTRIC LATITUDE
COSSLT(12)	-COSINE OF TRACKING STATION'S GEOCENTRIC LATITUDE
SINSLN(12)	- SINE OF TRACKING STATION'S LONGITUDE
COSSLN(12)	*COSINE OF TRACKING STATION'S LONGITUDE
R(2)	-ELEVATION CONSTRAIRT (RADIANS)
R(2) R(6)	

"YALUE OF 90 DEGREES IN RADIANS

HALFPI

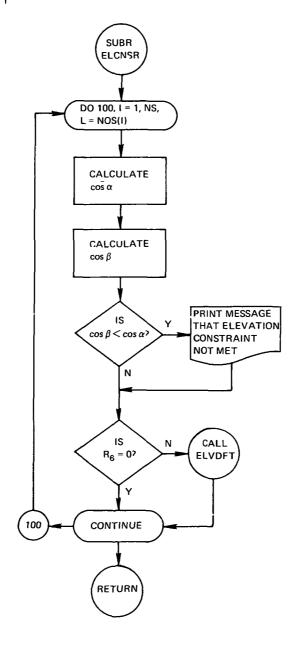
PRINT STATEMENT NOTED JNDER FORMAT 7 IF CONSTRAINT IS NOT MET

\*\*\*\*\*\*\*\*INTERNAL PARAMETERS

COSALF -COSINE OF THE ARC RADIUS OF THE DEFINED REGION

-TRACKING STATION NUMBER

\*\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED-ELVDFT



\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*LANGUAGE-FORTRAN IV

\*\*\*\*\*\*\*\*\*\*\*\* 625

\*\*\*\*\*\*\*PURPOSE-

TO DETERMINE IF THE ELEVATION CONSTRAINT HOLDS DURING THE REQUIRED TRACKING PERIOD.

#### \*\*\*\*\*\*\*METHOD

THE LONGITUDINAL DIFFERENCE BETHEEN THE TRACKING STATION TO THE EDGE OF THE REGION AT THE LATITUDE OF THE CLOUD ABOUT THIS STATION AS DEFINED IN SUBROJTINE BLOWSR IS FOUND, THERE ARE THO POINTS ON THE EDGE OF THIS REGION AT THE LATITUDE OF THE CLOUD WHICH ARE AT AN ARC DISTANCE EQUAL TO THE ARC RADIUS OF THIS REGION, FOR AN EASTERLY DRIFT OF THE BLOUD AFTER RELEASE THE POINT EAST OF THE TRACKING STATION IS REQUIRED, AND FOR THE WESTERLY DRIFT THE POINT WEST OF THE TRACKING STATION IS REQUIRED, THE PROBLEM NOW IS TO FIND OUT HOW LONG IT WILL TAKE FOR THE CLOUD TO DRIFT TO THIS POINT ON THE EDGE OF THE DEFINED REGION, IF IT IS SHORTER THAN THE GIVEN TRACKING PERIOD THEN THE ERROR MESSAGE (FORMAT 1000) IS PRINTED.

#### \*\*\*\*\*\*\*!NPUT =.

COSALF -COSINE OF THE ARC RADIUS OF THE DEFINED REGION

I TRACKING STATION NUMBER

SINCLT #SINE OF RELEASE ROINT'S GEOCENTRIC LATITUDE

COSCLT -COSINE OF RELEASE POINT'S GEOCENTRIC LATITUDE

NAME (3,12) -NAME OF TRACKING STATIONS USED

RLAMD(12) \*\*LONGITUDE OF THE TRACKING STATION (RADIANS)

SINSLT(12) #SINE OF TRACKING STATION'S GEOCENTRIC LATITUDE

COSSLT(12) \*COSINE OF TRACKING STATION'S GEOCENTRIC LATITUDE

R(6) #CLOUD BRIFT RATE (RADIANS/HR)

R(7) -MINIMUM TRACKING PERIOD AFTER RELEASE (HOURS)

# \*

NAME (3,12) WAME OF TRACKING STATIONS USED

TIME CONSTRAINT IS MET FOR GIVEN DRIFT RATE (HRS

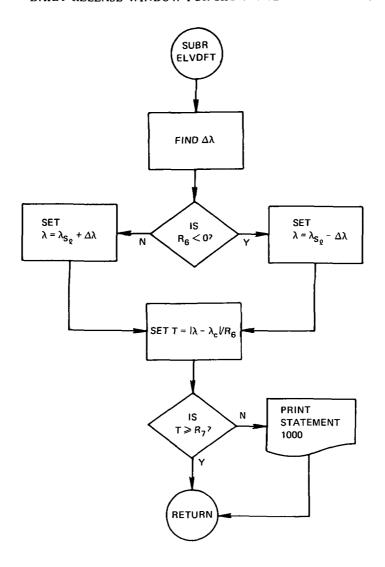
R(7) #VALUE OF T IF T.LT. INPUT VALUE OF R(7)=IN HOURS

## \*\*\*\*\*\*\*RESTRICTIONS

THE DRIFT RATE OF THE CLOUD IS ASSUMED TO BE REFLECTED IN A CHANGE ONLY OF LONGITUDE VALUE FOR THE CLOUD'S POSITION AND IS ASSUMED TO BE CONSTANT FOR THE EXRERIMENTAL PERIOD. THE ELEVATION CONSTRAINT FOR THE POSITION OF THE AIRCRAFT AT THE END OF THE EXPERIMENTAL PERIOD IS CALCULATED IN SUBROUTINE EPAIR

\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED=-

NONE



\*\*\*\*\*\* PURPOSETO CALCULATE THE AIRGLOW BRIGHTNESS AS DEFINED.

 FROM THIS ANGLE THE AIRGLOW BRIGHTNESS IS COMPUTED. IT ALSO USES SUBROUTINE EPAIR TO COMPUTE THE AIRGLOW BRIGHTNESS AT DISCRETE POINTS FROM EACH TRACKING STATION TO THE CLOUD'S POSITION AFTER RELEASE.

## \*\*\*\*\*\*\*INPUT-

JEND

	*IMPUT=	
	ÇGÇX	#BEBÇENTRIC X COMPONENT OF RELEASE POINT (ERU)
	CGCY	-GEOCENTRIC Y COMPONENT OF RELEASE POINT (ERU)
	ÇGÇZ	*GEOCENTRIC Z COMPONENT OF RELEASE ROINT (ERU)
	SGCX(12)	*GEOCENTRIC X COMPONENT OF TRACKING STATION (ERU)
	SGCY(12)	#SECCENTRIC Y COMPONENT OF TRACKING STATION (ERU)
	SGCZ(12)	#GEOCENTRIC Z COMPONENT OF TRACKING STATION (ERU)
	PHI(12)	-GEODETIC LATITUDE OF TRACKING STATION (8EG)
	SINSLN(12)	- SINE OF TRACKING STATION'S LONGITUDE
	COSSLN(12)	-COSINE OF TRACKING STATION'S LONGITUDE
	R(7)	MINIMUM TRACKING PERIOD AFTER RELEASE (HOURS)
	NS	-THE NUMBER OF STATIONS USED IN THE PROGRAM
	NOS(12)	-AN ARRAY CONTAINING THE STATION NUMBERS USED
	<b>LTR</b>	-CONVERSION FACTOR FROM DEGREES TO RADIANS
******	OUTPUT-	
*****	OUTPUT-	-GEOCENTRIC X COMPONENT OF VECTOR FROM STATION TO -RELEASE POINT (ERU)
*****		
*****	WX	#RELEASE POINT (ERU) -GEOCENTRIC Y COMPONENT OF VECTOR FROM STATION TO
*****	WY	#RELEASE POINT (ERU)  -GEOCENTRIC Y COMPONENT OF VECTOR FROM STATION TO  -RELEASE POINT (ERU)  -GEOCENTRIC Z COMPONENT OF VECTOR FROM STATION TO
*****	WY WZ	#RELEASE POINT (ERU)  -GEOCENTRIC Y COMPONENT OF VECTOR FROM STATION TO  -RELEASE POINT (ERU)  -GEOCENTRIC Z COMPONENT OF VECTOR FROM STATION TO  -RELEASE POINT (ERU)  -X-COMPONENT OF UNIT VECTOR IN DIRECTION OF
****	WY WZ USX	#RELEASE POINT (ERU)  -GEOCENTRIC Y COMPONENT OF VECTOR FROM STATION TO  -RELEASE POINT (ERU)  -GEOCENTRIC Z COMPONENT OF VECTOR FROM STATION TO  *RELEASE POINT (ERU)  -X-COMPONENT OF UNIT VECTOR IN DIRECTION OF  -TRACKING STATION'S ZENITH  -Y-GOMPONENT OF UNIT VECTOR IN DIRECTION OF
*****	WY WZ USX	-RELEASE POINT (ERU)  -GEOCENTRIC Y COMPONENT OF VECTOR FROM STATION TO -RELEASE POINT (ERU)  -GEOCENTRIC Z COMPONENT OF VECTOR FROM STATION TO -RELEASE POINT (ERU)  -X-COMPONENT OF UNIT VECTOR IN DIRECTION OF -TRACKING STATION'S ZEMITH  -Y-SOMPONENT OF UNIT VECTOR IN DIRECTION OF -TRACKING STATION'S ZEMITH  -Z-GOMPONENT OF UNIT VECTOR IN DIRECTION OF

-NUMBER OF DISCRETE VALUES STORED FOR

-EXPERIMENTAL PERIOD DATA

\*\*\*\*\*\*\*\*RESTRICTIONS\*

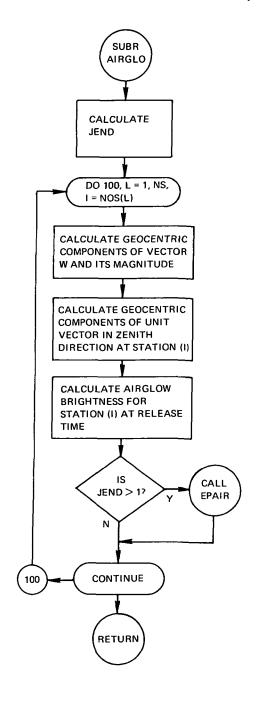
UP TO TWELVE TRACKING STATIONS CAN BE USED AND UP TO SEVEN DISCRETE VALUES FOR ATROLOW BRIGHTNESS CAN BE COMPUTED FOR EACH TRACKING STATION.

\*\*\*\*\*\*\*\*SUBPROGRAMS REGUIRED+

EPAIR

\*\*\*\*\*\*\*REMARK#

UNLY ELEVEN TRACKING STATIONS CAN BE USED IF ONE OF THESE STATIONS IS A MOVING OR AIRCRAFT STATION.



\*\*\*\*\*\*\*\*\*\*\*\*\* SJBROUTINE EPAIR \*

\*\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*\*LANGUAGE=FORTRAN IV

\*\*\*\*\*\*\*\* MACHINE-GE 625

\*\*\*\*\* PURPOSE.

TO CALCULATE THE DIFFERENT AIRGLON BRIGHTNESS FOR EACH THIRTY (30) MINUTE TIME INTERVAL DURING THE DESIRED EXPERIMENT TIME.

########ETHODe

THE GEOCENTRIC X,Y,Z-COMPONENTS OF THE VECTOR FROM EARTH CENTER TO THE CLOUD IS MODIFIED AT 30 MINUTE INCREMENTS TO INCORPORATE ITS POSITION AFTER RELEASE DUE TO THE EAST/WEST DRIFT OF THE CLOUD. THE CLOUD DRIFT IS ASSUMED TO BE CONSTANT AND IN THE SAME DIRECTION AND IS ASSUMED TO BE SOLELY A CHANGE IN LONGITUDE ANGLE. THE X,Y,Z-COMPONENTS OF THE VECTOR FROM STATION(I) TO THE POSITION OF THE CLOUD AT DISCRETE POINTS DURING THE EXPERIMENTAL PERIOD IS CALCULATED. THE AIRGLOW BRIGHTNESS AND 'C' COEFFICIENT VALUES ARE FOUND AS IN SUBROUTINE AIRGLO FOR THESE POINTS. THE ELEVATION CONSTRAINT FOR THE LAST POSITION OF THE MOVING

TRACKING STATION IS CHECKED USING THE ZENITH ANGLE(SECZ).

WINDEX FOR STATION NUMBER

#### \*\*\*\*\*\*\*INPUT

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,	
JEND	-NUMBER OF DISCRETE VALUES STORED FOR -EXPERIMENTAL PERIOD DATA
R(6)	-CLOUD DRIFT RATE (RADIANS/HR)
CGCX	-GEOCENTRIC X COMPONENT OF RELEASE POINT (ERU)
CGCY	-GEOCENTRIC Y COMPONENT OF RELEASE POINT (ERU)
ÇGÇZ	-GEOCENTRIC Z COMPONENT OF RELEASE POINT (ERU)
5GCX(12)	#GEOCENTRIC X COMPONENT OF TRACKING STATION (ERU)
SGCY(12)	-GEDCENTRIC Y COMPONENT OF TRACKING STATION (ERU)
SGCZ(12)	-GEOCENTRIC Z COMPONENT OF TRACKING STATION (ERU)
ŲSX	-X-BOMPONENT OF UNIT VECTOR IN DIRECTION OF -TRACKING STATION'S ZENITH
USY	-Y-COMPOUNT OF LINU TENDER IN DIRECTION OF -Y-COMPOUNT OF TRACKING STATION'S ZENTH
VSZ	-Z-COMPONENT OF UNIT VECTOR IN DIRECTION OF -TRACKING STATION'S ZENTH
PLAT(7)	-GEODETIC LATITUDE OF AIRCRAFT DURING -EXPERIMENTAL PERIOD (DEG)
SINLON(7)	-SINE OF AIRCRAFT LONGITUDE DURING EXPERIMENTAL
COSLON(7)	-COSINE OF AIRCRAFT LONGITUDE DURING EXPERIMENTAL -PERIOU

AGCX(7)	-GEOCENTRIC X COMPONENT OF AIRCRAFT POSITION
	*DURING EXPERIMENTAL PERIOD (ERU)
AGCY(7)	-GEOCENTRIC Y COMPONENT OF AIRCRAFT POSITION
	HOURING EXPERIMENTAL PERIOD (ERU)
AGCZ(7)	-GEOCENTRIC Z COMPONENT OF AIRCRAFT POSITION
	#DURING EXPERIMENTAL PERIOD (ERU)
MOVE(12)	-CODE NUMBER TO DETERMINE IF STATION COORDINATE
	-ARE FOR EARTH FIXED STATION OR FOR AIRCRAFT
	-OFFOR FIXED STATION
	w#11FOR AIRCRAFT
n≢p	#CONVERSION FACTOR FROM DEGREES TO RADIANS
DTR	ACCALED 2104 LYBRINK LYDD DEGREED IN KUDIUNZ

# \*\*\*\*\* OUTPUT-

••••	
WPX(12.7)	-VALUE OF GEOCENTRIC X COMPONENT OF VECTOR FROM -STATION TO CLOUD AT DISCRETE TIMES AFTER RELEASE
WPY(12,7)	-VALUE OF GEOCENTRIC Y COMPONENT OF VECTOR FROM -STATION TO CLOUD AT DISCRETE JIMES AFTER RELEASE
WP4(12,7)	-VALUE OF GEOGENTRIC Z COMPONENT OF VECTOR FROM STATION TO CLOUD AT DISCRETE TIMES AFTER RELEASE
BA(12,7)	*AIRGLOW BRIGHTNESS FROM A GIVEN STATION TO THE GIVEN POSITION OF THE CLOUD (RAYLEIGHS)
C(12.7)	-COEFFICIENT DEPENDENT UPON THE RELATIVE POSITION WOF THE TRACKING STATION TO THE CLOUD AND USED TO -SOLVE FOR THE TOTAL SKY BACKGROUND BRIGHTNESS

# \*\*\*\*\*\*\*\*RESTRIÇTIONS--

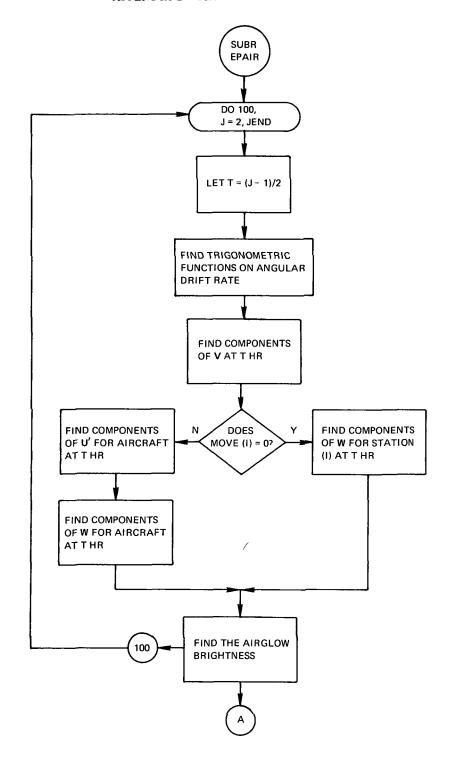
UP TO THELVE TRACKING STATIONS CAN BE JSED AND UP TO SEVEN DISCRETE VALUES FOR AIRGLOW BRIGHTNESS CAN BE COMPUTED FOR EACH TRACKING STATION.

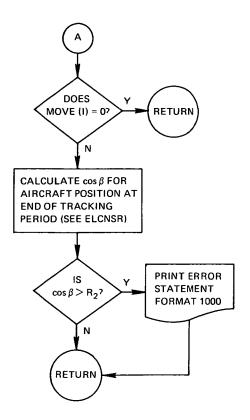
# e#ee###SUBPROGRAMS REDJIRED⇒ ~

# \*\*\*\*\*\*\*REMARKo

ONLY ELEVEN TRACKING STATIONS CAN BE USED AS INPUT IF ONE OF THESE STATIONS IS AN AIRCRAFT.

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# FUNCTION TIME (DAYNUM)

# PURPOSE

TO COMPUTE THE GREENWICH MEAN SIDEREAL TIME AT ZERO HOURS UNIVERSAL TIME FOR ANY JULIAN DATE AFTER 2415020.0 OR JANUARY 0.1900

## LANGUAGE

FORTRAY IV

## CALLING SEQUENCE

GMSIDT = TIME(DAYNUM) (TIME IS A DOUBLE PRECISION FUNCTI

## INPUTS

DAYNUM = JULIAN DATE AT ZERO HOURS UNIVERSAL TIME

#### OUTPUTS

TIME(DAYNJM) = GREENWICH MEAN SIDEREAL TIME AT ZERO HOURS UNIVERSAL, (HOUR ANGLE OF THE FIRST POINT OF ARIES.) ANSWER IS IN HOURS AND DECIMAL FRACTIONS OF HOURS. TO CONVERT TO DEGREES MULTIPLY BY 15.0 (DOUBLE PRECION)

## REFERENCE

1. AMERICAN EPHEMERIS AND NAUTICAL ALMANAC, 1961
2. EXPLANATORY SUPPLEMENT TO ABERICAN EPHEMERIS AND NAUTICAL ALMANAC. (HER MAJESTY'S STATIONARY OFFICE, LONDON

#### METHOD

VALUES OF GREENRICH MEAN SIDEREAL TIME ARE OBTAINED BY AD THELVE HOURS TO NEWCOMB'S (A.P.A.E. 6.1898, PART I) EXPRE FOR THE RIGHT ASCENSION OF THE MEAN SUN.

RESTRICTIONS
NONE KNOWN

SUBPROGRAMS REQUIRED

FRANK E. HOGE
FRANK E. HOGE
APPLIED MATH SECTION
NASA
WALLOPS STATION. VAI

PROGRAMMER

DENNIS MELVIN APPLIED MATH SECTION NASA HALLOPS STATION, VA.

## FUNCTION DAYNUM(MUNTH, DAY, YEAR)

#### PURPOSE

TO COMPUTE THE JULIAN DATE AT ZERO HOURS UNIVERSAL TIME FOR ANY DAY FROM THE YEAR, 1600 TO THE YEAR 2000

LANGUAGE FORTRAN IV

CALLING SEQUENCE

YE DAYNUM(MUNTH, DAY, YEAR)
YEAR, AND DAY BEING FLOATING POINT VARIABLES,
MUNTH BEING AN INTEGER VARIABLE

#### INPUTS

MUNTH # CALENDAR MONTH (INTEGER)

BAY = CALENDAR DAY (FLOATING SOINT)

YEAR = CALENDAR YEAR (FLOATING POINT)

#### OUTPUTS

STAD SYDBA SHT NOR RUCH CRES TA REBMUN YAR NAIJÜL E MUNYAD

#### REFERENCE

1. AMERICAN EPHEMERIS AND NAUTICAL ALMANAC

#### METHOD

THE NUMBER OF DAYS ELAPSED FROM ZERO HOURS UNIVERSAL TIME,
JANUARY 0,1600 ARE ADDED TO THE JULIAN DAY NUMBER OF THAT
PARTICULAR DAY (2305446.5)

#### RESTRICTIONS

PROGRAM CHECKED TO THE YEAR 2000 ALD.

SUBPROGRAMS REQUIRED NONE

ANALYSIS

FRANK E, HOGE
APPLIED MATHEMATICS SECTION
WALLOPS STATION, VA.

PROGRAMMER

DENNIS MELVIM
APPLIED MATHEMATICS SECTION
WALLOPS STATION, VA.

\*\*\*\*\*\*\* ASA WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*\*LANGUAGE-FORTRAN IV

\*\*\*\*\*\*\*\*MACHINE-GE 625

\*\*\*\*\*\*\*\*PURPOSE

TO DETERMINE THE DAILY TIME INTERVAL FOR WHICH THE SUM AND MOON WILL BE BELOW THE RESPECTIVE ELEVATION ANGLES AT EACH TRACKING STATION, S LOCAL HORIZON.

\*\*\*\*\*\*\*METHOD\*

THE SOLUTION FOR DETERMINING THE TIME PERIODS FOR WHICH THE SUN AND MOON CONSTRAINTS ARE MET FOR EACH STATION ARE DEVELOPED USING SIMILAR ANALYSIS, AN APPROXIMATE TIME FOR THE DEFINED CONSTRAINT (SUN OR MOON) TO BE MET IS DETERMINED FROM THE FIRST INTERVAL FOR THE DAY PLUS DELTA(M). THE POSITION OF THE SUN OR MOON FOR THAT TIME IS FOUND AND IS THEN TRANSFORMED TO THE TOPOCENTRIC COORDINATES OF THE TRACKING STATION, THE ELEVATION ANGLE OF THE SUN (OR MOON), AT THIS TRACKING STATION IS FOUND FOR THE BURRENT POSITION OF THE SUN (MOON), A THREE POINT INTERPOLATION METHOD IS USED TO APPROXIMATE THE NEXT GUESS AT THE TIME FOR HICH THE CONSTRAINT IS MET, THE PROCESS OF DEFINING THE POSITION OF THE SUN (MOON) FOR THE LATEST UNIVERSAL TIME, TRANSFORMING TO TOPOCEMITIC COORDINATES AND CHECKING THE ELEVATION ANGLE IS REPEATED UNTIL EITHER A TIME IS FOUND FOR WHICH THE RATIO OF THE ELEVATION ANGLE TO THE REQUIRED CONSTRAINT IS ACCURATE TO ,0001 OR THAT THE ITERATIVE PROCESS IS TOO LONG AND IMPLIES A HEAK CONVERGENCE OR DIVERGENCE. THE TIME PERIOD FOUND IS STORED AS THE SECOND TIME PERIOD FOR THE DAY, THE MAIN PROGRAM TREATS THIS AS THE FIRST TIME PERIOD OF THE NEXT DAY BY SUBTRACTING 24 HOURS FROM THESE VALUES.

IF A MOVING TRACKING STATION IS IMPUT, THEN THE TIME OF DAY FOR WHICH ITS POSITION AT THE END OF THE EXPERIMENTAL PERIOD SATISFIES THE SUN AND MOON ELEVATION CONSTRAINTS IS FOUND. THESE TIMES ARE STORED IN THE WINDOW ARRAY AND THE WINDOW TIMES FOR THE MOVING TRACKING STATION ARE DETERMINED SUCH THAT THE SUN AND MOON CONSTRAINTS WILL BE SATISFIED FOR ITS POSITION AT TIME OF RELEASE AND DURING THE EXPERIMENTAL PERIOD.

\*\*\*\*\*\*INPUT-

NS THE NUMBER OF STATIONS USED IN THE PROGRAM

NOS(12) -AN ARRAY CONTAINING THE STATION NUMBERS USED

WINDOW(6,5,12) -THE DAILY RELEASE WINDOW START/STOP TIMES.

```
-1ST INDEX FOR STORING START/STOP TIMES.
              -1 FOR START TIME
              -2 FOR STOP TIME
              -2ND INDEX FOR THE CONSTRAINT
              ₹ 3±SUV
                 VCOM=4
              #3RD INDEX FOR THE STATION NUMBER
KYEAR
              TEAR NUMBER FOR STARFING CALCULATIONS
              -CURRENT NUMBER OF DAYS PAST JANUARY O OF 'KYEAR'
I
              -INDEX TO INDICATE CONSTRAINT
M
              - =3,5UN
- =4,900N
              -APPROXIMATE PERIOD OF SUN MOTION (HRS)
DELTA(3)
DELTA(4)
              -APPROXIMATE PERIOD OF MOON MOTION (HRS)
              -NAME OF TRACKING STATIONS USED
NAME (3,12)
              -LONGITUDE OF TRACKING STATION (DEG)
LAMBUA(12)
RVS(12)
              *RADIUS VECTOR FROM EARTH CENTER TO TRACKING
              -STATION (ERU)
              *GREENWICH MEAN SIDEREAL HOUR ANGLE AT ZERO HOURS
GHA
              -UNIVERSAL TIME (HHS)
              -SUN ELEVATION CONSTRAINT (RADIANS)
R(3)
              -MOSN ELEVATION CONSTRAINT (RADIANS)
R(4)
              -DISTANCE FROM EARTH CENTER TO SUN (ASTRONOMICAL
ANS(3)
              (STINU-
              *INERTIAL X COMPONENT OF VECTOR FROM EARTH CENTER
ANS(4)
              TO SUN (AU)
              -INERTIAL Y COMPONENT OF VECTOR FROM EARTH CENTER
ANS(5)
              -TO SUN (AJ)
              -INERTIAL Z COMPONENT OF VECTOR FROM EARTH CENTER
ANS(6)
              -TO SUN (AU)
              -DISTANCE FROM EARTH CENTER TO MOON (ERU)
ANS(9)
              FINERTIAL X COMPONENT OF VECTOR FROM EARTH CENTER
ANS(10)
              -TO MOON (ERU)
              +INERTIAL Y COMPONENT OF VECTOR FROM EARTH CENTER
ANS(11)
              -TO MOON (ERU)
              *INERTIAL Z COMPONENT OF VECTOR FROM EARTH CENTER
ANS(12)
              TO MOON (ERU)
AGC2TC(3,3)
              FELEMENTS OF TRANSFORMATION MATRIX FROM THE
              -INERTIAL SYSTEM TO THE TOPOCENTRIC SYSTEM
              +CONVERSION FACTOR FROM DEGREES TO RADIANS
DTR
              -CONVERSION FACTOR FROM RADIANS TO HOURS
RTH
HTR
              -CONVERSION FACTOR FROM HOURS TO RADIANS
```

AŲ	#CONVERSION FACTOR FROM ASTRONOMICAL UNITS TO #EARTH RADII UNITS
MOVE(12)	-BODE NUMBER TO DETERMINE IF STATION COORDINATES -ARE FOR EARTH FIXED STATION OR FOR AIRCRAFT -ROJFOR FIXED STATION -#1,FOR AIRCRAFT
SINLAT(7)	#SIME OF AIRCHAFT GEOCENTRIC LATITUDE DURING #EXPERIMENTAL PERIOD
COSLAT(7)	DOSINE OF AIRCRAFT GEOCENTRIC LATITUDE DURING DERINENTAL PERIOD
SINLON(7)	+SINE OF AIRCRAFT LONGITUDE DURING EXPERIMENTAL +PERIOD
COSLON(7)	*COSINE OF AIRCRAFT LONGITUDE DURING EXPERIMENTAL *PERIOD
RVA(7)	-DISTANCE FROM EARTH CENTER TO AIRCRAFT DURING -EXPERIMENTAL PERIOD (ERU)
RLAT(7)	-GEOCENTRIC LATITUDE OF AIRCRAFT DURING -EXPERIMENTAL PERIOD (RADIANS)
RLON(7)	"LONGITUDE OF AIRCRAFT DURING EXPERIMENTAL PERIOD "(RADIANS)
JEND	-AUMBER OF DISCRETE VALUES STORED FOR

## \*\*\*\*\*\*\*OUTPUTm.

DELTA(3) WAPPROXIMATE PERIOD OF SUN MOTION (HRS)

MEXPERIMENTAL PERIOD DATA

DELTA(4) -APPROXIMATE PERIOD OF MOON MOTION (HRS)

WINDOW(6,5,12) THE DAILY RELEASE WINDOW START/STOP TIMES. -1ST INDEX FOR STORING START/STOP TIMES. -3 FOR START TIME #4 FOR STOP TIME THIAFTENCE BHT FOR XBONI GNS-

₩ 3=SUN

4≈MÕDN

-3RD INDEX FOR THE STATION NUMBER

#### \*\*\*\*\*\*\*\*RESTRICTIONS-

TIME PERIODS FOR JP IN THELVE TRACKING STATIONS CAN BE FOUND. ROUTINE DEPENDS UPON THE AVAILABLE DATA ON THE SUN AND MOON POSITION TO BE DEFINED IN THE EPHENERIS TABLES FOR THE DATES REQUIRED, PRESENT VERSION CONTAINS DATA FOR THE YEARS 1972 THRU 1980. ABDITIONAL DATA CAN BE MADE AVAILABLE JHEN NECESŠARY.

#### \*\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED-

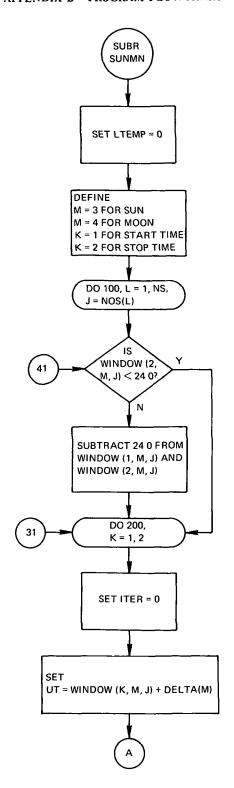
RDEPH

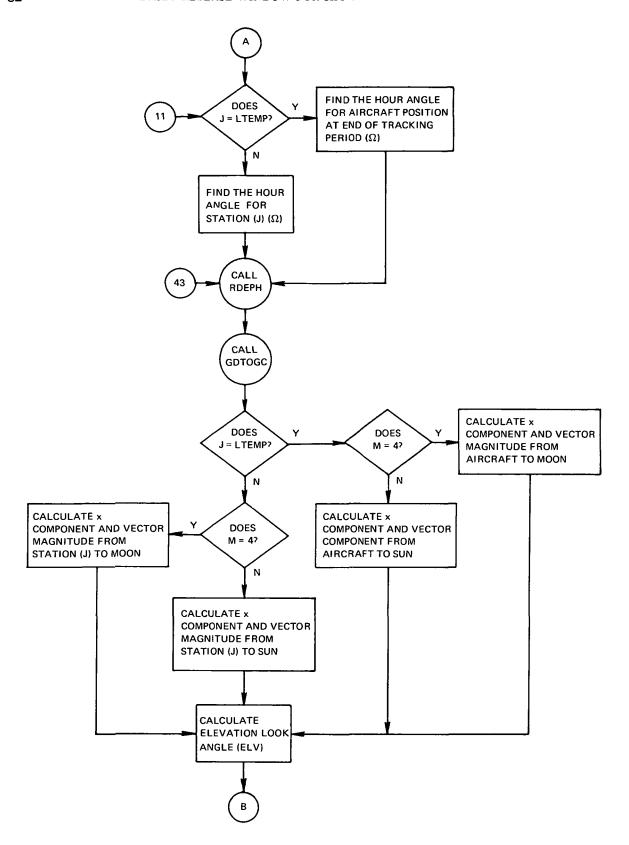
EPHEMERIS TABLES

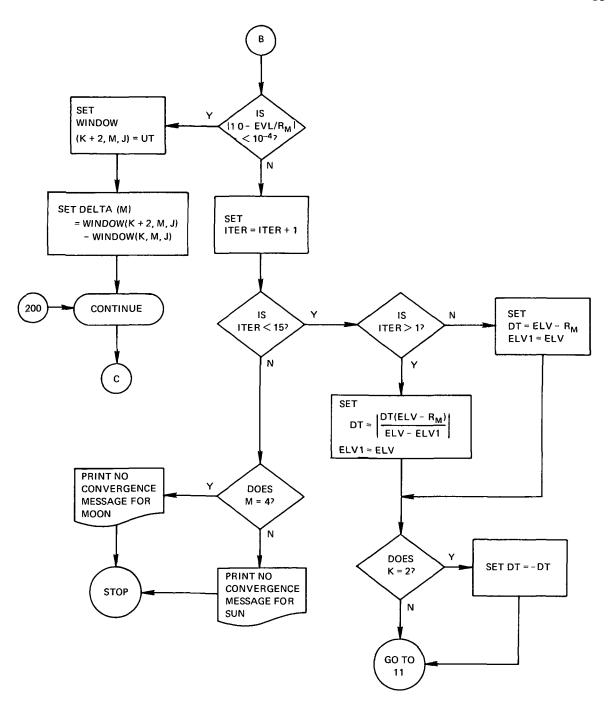
GC2TC

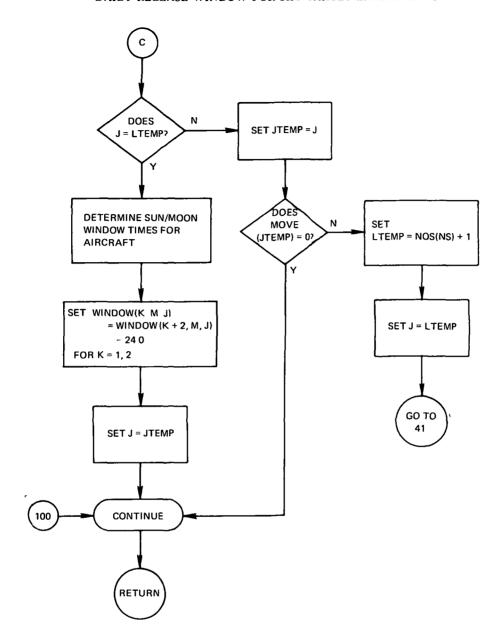
## \*\*\*\*\*REMARK

ONLY ELEVEN TRACKING STATIONS CAN BE USED AS INPUT IF ONE OF THESE STATIONS IS AN AIRCRAFT.









\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*\*\* IV

\*\*\*\*\*\*\* \*MACHINE-GE 625

\*\*\*\*\*\*PURPOSE-

TO COMPUTE THE ELEMENTS OF THE TRANSFORMATION MATRIX FOR THE ROTATION FROM INERTIAL: RECTANGULAR COORDINATES TO A TOPOCENTRIC SYSTEM WITH ORIGIN AT THE ORIGIN OF THE INERTIAL SYSTEM!

\*\*\*\*\*\*\*METHOD»

GIVEN A POINT OF SECCENTRIC LATITUDE AND LONGITUDE AND THE CURRENT HOUR ANGLE CALCULATE THE ELEMENTS OF THE TRANSFORMATION MATRIX, COORDINATE TRANSFORMATION BY THIS MATRIX WILL TRANSFORM THE COMPONENTS FROM AN INERTIAL RECTANGULAR SYSTEM TO A TOPOCENTRIC SYSTEM, THE INERTIAL COORDINATE SYSTEM IS DEFINED AS HAVING ITS ORIGIN AT THE EARTH'S GENTER WITH THE X-AXIS IN THE DIRECTION OF THE FIRST POINT OF ARIES, THE Y-AXIS IN THE EQUATORIAL PLANE 90 DEGREES COUNTERCLOCKWISE FROM X AND THE Z-AXIS DIRECTED TOWARDS THE ZENITH IN A RIGHT HANDED SYSTEM, THE TOPOCENTRIC SYSTEM HAS ITS X-AXIS DIRECTED TOWARDS THE GEOCENTRIC INPUT POINT, THE Z-AXIS DIRECTED TOWARD THE SAME LATITUBE BUT AT 180 DEGREES FROM THE INPUT LONGITUDE AND THE Y-AXIS POSITIONED AS TO COMPLETE THE REGHT HANDED SYSTEM,

## 

HA -THE STATION'S HOUR ANGLE (RADIANS)

J THE INDEX NUMBER OF THE STATION

NOS(12) -AN ARRAY CONTAINING THE STATION NUMBERS USED

NS PTHE NUMBER OF STATIONS USED IN THE PROGRAM

SINSLT(12) -SIME OF TRACKING STATION'S GEOCENTRIC LATITUDE

COSSLT(12) -COSINE OF TRACKING STATION'S GEOCENTRIC LATITUDE

SINLAT(7) -SINE OF AIRCRAFT SECCENTRIC LATITUDE DURING

-EXPERIMENTAL PERIOD

COSLAT(7) = COSIVE OF AIRCRAFT GEOCENTRIC LATITUDE DURING

-EXPERIMENTAL PERIOD

AGC2TC(3,3) +ELEMENTS OF TRANSFORMATION MATRIX FROM THE

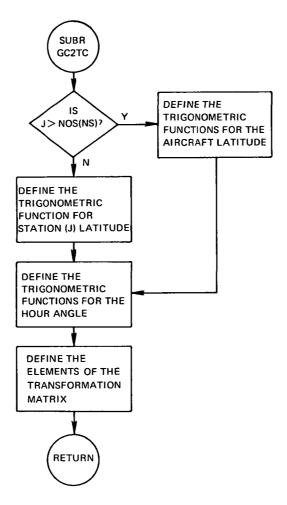
WINERTIAL SYSTEM TO THE TOPOCENTRIC SYSTEM

\*\*\*\*\*\*\*RESTRICTIONS

NS CANNOT BE GREATER THAN THELVE.

\*\*\*\*\*\*\*\*SUBPROGRAMS REGUIRED\*

NONE



\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*LANGUAGE-FORTRAN IV

\*\*\*\*\*\*\*\*\*\*ACHINE-GE-625

\*\*\*\*\*\*\*PURPOSE-

TO DETERMINE THE TIME INTERVAL FOR THE CURRENT DAY FOR WHICH THE POSITION OF THE CLOUD WILL BE WITHIN THE EARTH'S SHADOW.

\*\*\*\*\*\*\*METHODe

THIS SUBROUTINE ASSUMES THAT THE DECLINATION OF THE SUN IS FIXED FOR THE CURRENT DAY, THIS ASSUMBTION ALL HAVE AN ERROR OF LESS THAN 30 SECONDS IN TIME FOR A CLOUD AT LONGITUDE OF 75 DEGREES, THE SUBROUTINE FIRST FINDS THE SUN'S DECLINATION AT ZERO HOURS UNIVERSAL TIME, THEN A CHECK IS MADE TO SEE IF THE CLOUD'S POSITION HILL BE WITHIN THE BRE-DEFINED EARTH SHADOW REGION. IF SO, THEN TIME ENTERING AND LEAVING THIS REGION DUE TO THE GEOCENTRIC POSITION OF THE CLOUD, S FOUND, THE CLOUD, S GROWTH AND DRIFT AFTER RELEASE IS JSED TO DEFINE THE ILLUMINATION OF THE TOTAL CLOUD, THE RESULT OF THIS SUBROUTINE IS TO BEFINE THE TIME PERIOD(S) FOR ROSSIBLE RELEASE WHICH EXCLUDES THE EARTH SHADOW REGION,

## \*\*\*\*\*\*\*INPUT-

KYEAR -TEAR SUMBER FOR STARTING CALCULATIONS

1 -CURRENT NUMBER OF DAYS PAST JANUARY D OF 'KYEAR'

PHIP -GEOCENTRIC LATITUDE OF RELEASE POINT (RADIANS)

SINCLT -SINE OF RELEASE POINT'S GEOCENTRIC LATITUDE

COSCLT -COSINE OF RELEASE POINT'S GEOCENTRIC LATITUDE

SHADOW -RABIUS OF EARTH SHADOW REGION (RADIANS)

GAMMA +COSINE OF 'SHADOW'

DRIFT -THE SPACE-FIXED DRIFT OF CLOUD (DEG/HR)

GHA =GREENWICH MEAN SIDEREAL HOUR ANGLE AT ZERO HOURS
-UNIVERSAL TIME (HRS)

ANS(1) #RIGHT ASCENSION OF THE SUN (RADIANS)

ANS(2) #BECLINATION OF THE SUN (RADIANS)

RTH -CONVERSION FACTOR FROM RADIANS TO HOURS

## \*\*\*\*\*\*\*OUTPUTS

WINDOW(6,1,1) =THE DAILY RELEASE WINDOW START/STOP TIMES;
=1ST INDEX FOR STORING START/STOP TIMES,
=1,3,5 FOR START TIMES
=2,4,6 FOR STOP TIMES
=2ND INDEX FOR THE BONSTRAINT
= 1=EARTH SHADD#
=3RD INDEX DUMMY (NORMALLY STATION NUMBER)

## \*\*\*\*\*\*\*\*INTERNAL PARAMETERS --

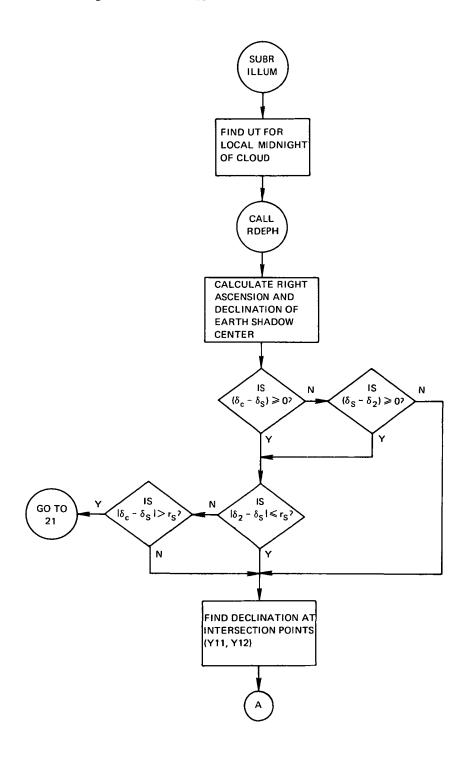
C1	TOTAL SPACE-FIXED ANGULAR DISPLACEMENT DUE TO CLOUD DRIFT FOR THE EXPERIMENTAL PERIOD.
Ç2	-ONE-HALF OF THE SPACE-FIXED ANGULAR DISPLACEMENT -DUE TO CLOUD GROWTH FOR THE EXPERIMENTAL PERIOD.
xo	-RIGHT ASCENSION OF EARTH SHADDW CENTER (RADIANS)
YO	-DECLINATION OF EARTH SHADOW CENTER (RADIANS)
PHIP2	-LARGEST VALUE OF CLOUB'S DECLINATION DUE TO -CLOUD GROWTH (RADIANS)
PHIP3	-SMALLEST VALUE OF GLOWD'S DECLINATION DUE TO -CLOUD GROWTH (RADIANS)
51(3)	-START TIME AS CALCULATED FOR EACH SIDE OF -TRIANGLE MODEL OF GLOUB'S REGION:
STP(3)	"STOP TIME AS CALCULATED FOR EACH SIDE OF TRIANGLE MODEL OF GLOUD'S REGION,

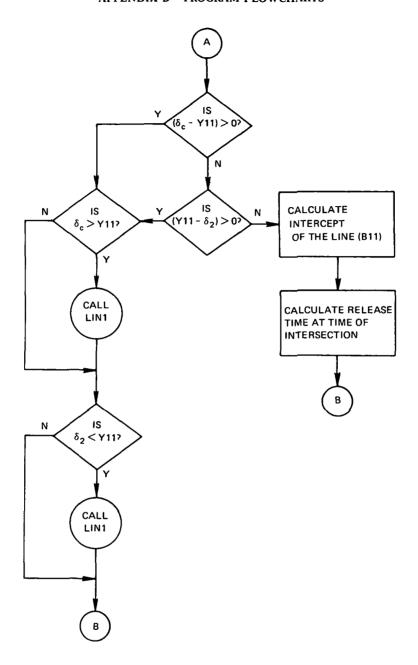
## \*#\*\*\*\*\*RESTRICTIONS-

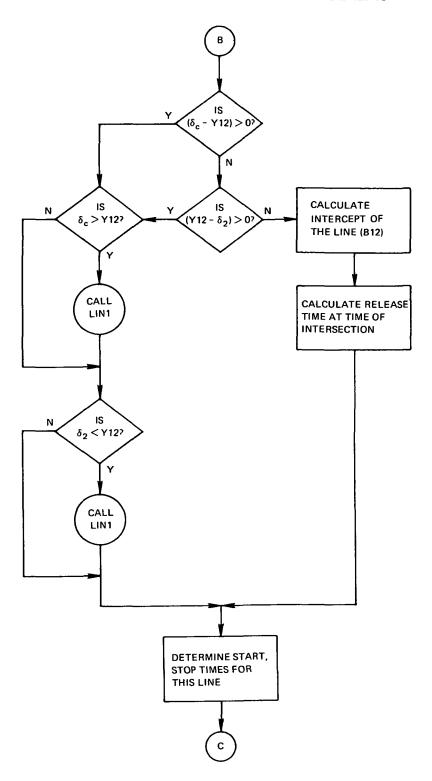
ACCURACY OF QUIPUT AS DEFINED ABOVE WYDER IMETHODI.

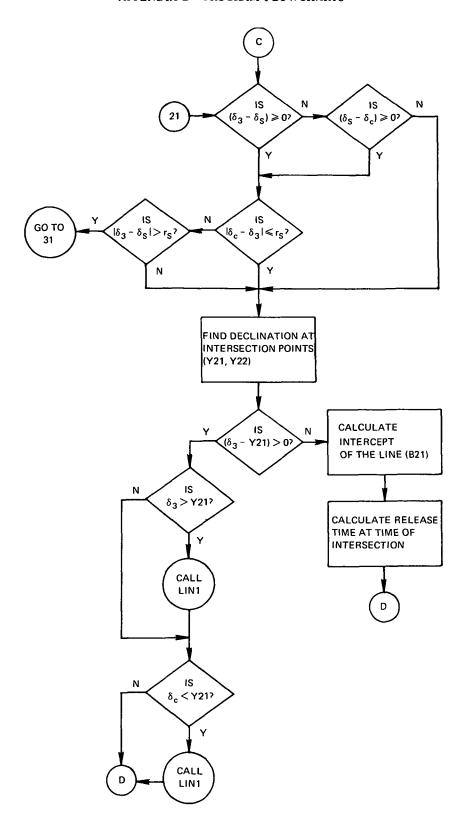
\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED-LIN1 RDEPH

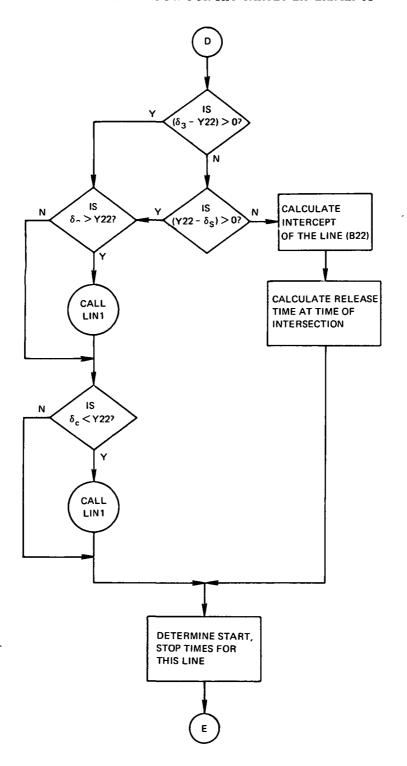
EPHEMERIS TABLES

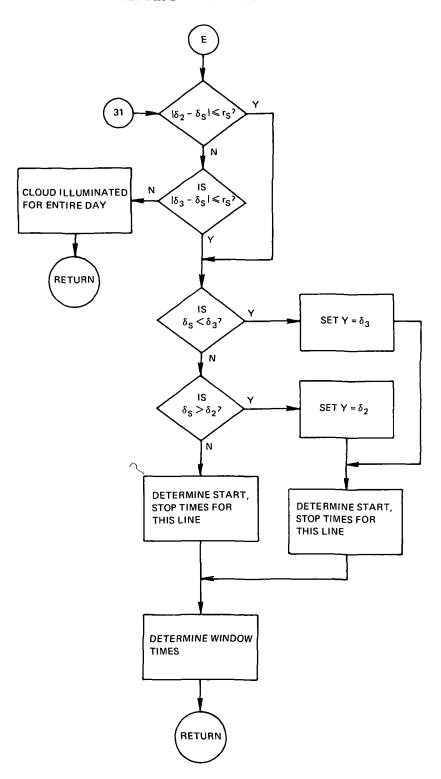












\*\*\*\*\*\*\*\*\*\*\*\*SUBROUTINE LIN1\* \*\*\*\*\*NASA WALLOPS VERSION OF 08/01/71 \*\*\*\*\*\*\*\*\* INGUAGE OF ORTRANT IV \*\*\*\*\*\*\*MACHINE-HW625 \*\*\*\*\*\*\*PURPOSE-TO CALCULATE THE MUSSIBLE RELEASE TIMES FOR THE CLOUD ILLUMINATION CONSTRAINT \*\*\*\*\*\*\*METHODe. THIS SUBROUTINE IS USED TO SOLVE THE POSSIBLE RELEASE TIME CALCULATIONS AS DEFINED IN SUBROUTINE ILLUM USING AN EQUATION THAT IS COMMON TO MANY CASES OF THE PROBLEM, THIS ROUTINE IS USED TO SIMPLIFY THE MANIPULATIONS OF SUBROUTINE ILLUM. \*\*\*\*\*\*\*INPUT-XO -RIGHT ASCENSION OF EARTH SHADOW CENTER (RADIANS) YO -DECLINATION OF EARTH SHADOW CENTER (RADIANS) SHADOW RABIUS OF EARTH SHADOW REGION (RADIANS) GHA \*GREENWICH MEAN SIDEREAL HOUR ANGLE AT ZERO HOURS -UNIVERSAL TIME (HKS) DGHA -HOURLY CHANGE FOR SIDEREAL TIME RTH -CONVERSION FACTOR FROM RADIANS TO HOURS RLAMDA -LONGITUDE OF RELEASE ROINT (RADIANS) PHI -DEBLINATION OF INTERSECTING POINT FOR CASE IN -QUESTION (PADIANS) -APPLICABLE CONSTANT FOR CLOUD DRIFT (RADIANS/HR) \* T1 -POSSIBLE TIME OF RELEASE FOR CASE IN QUESTION(HR 12 -POSSIBLE TIME OF RELEASE FOR CASE IN QUESTION(HR \*\*\*\*\*\*\*SUBPROGRAMS REQUIRED= NONE

RETURN

SUBR CALCULATE RELEASE TIMES FOR CURRENT

CASE

LIN<sub>1</sub>

\*\*\*\*\*\*\*\*RESTRICTIONS-NONE KNOWN? SUBROUTING RDEPA(YEAR, DAY, ET, ANS)

NASA/WALLQPS YERSION OF. 01/01/69

LANGUAGE - FORTRAN IV MACHINE - GE 625

PURPOSE

RDEPH COMPUTES THE SUN AND MOONS! ROSITION VECTOR

METHOD

THIS ROUTINE USES A THIRD DEGREE POLYNOMIAL TO INTERPOLATE TO A DESIRED ACCORACY OF APPROXIMATELY 5 ARC SECONDS

RESTRICTIONS

EPHEMERIS DATA IS PRESENTLY AVAILABLE FOR THE YEARS 1972-1980

CALLING SEQUENCE

CALL RDEPH (YEAR, DAY, ET, ANS)

INPUT

YEAR = THE YEAR NUMBER
DAY = THE DAY OF YEAR
EY = THE EPHEMERIS TIME PAST THE EPOCH DATE (HOURS)

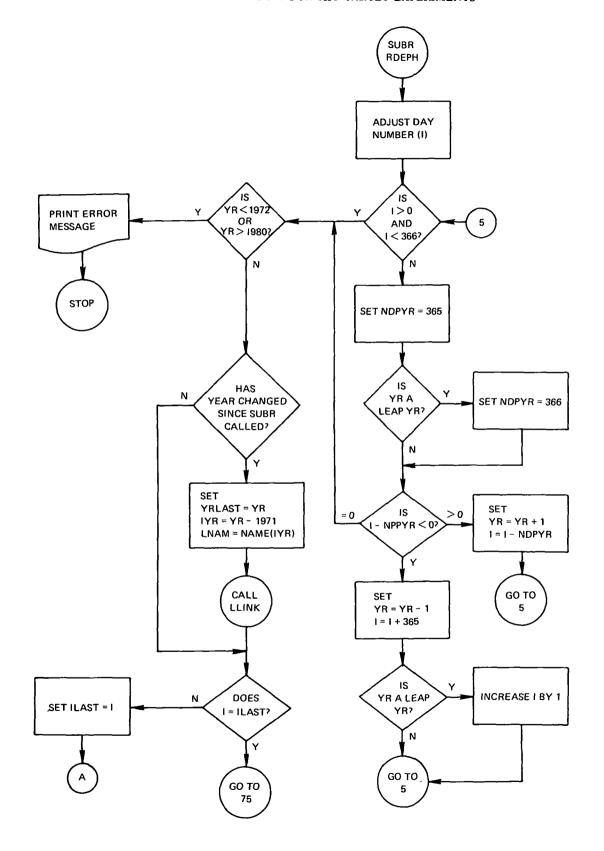
OUTPUT

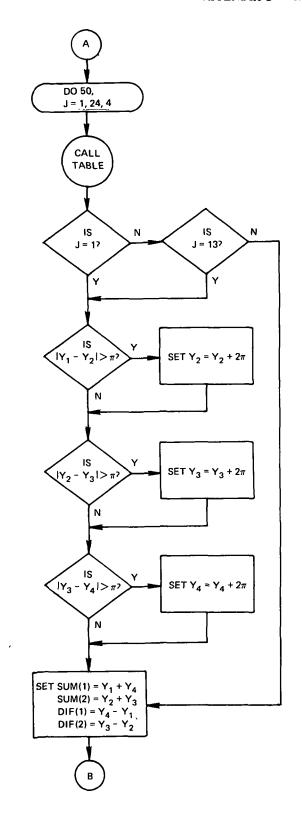
ANS(1) = THE SUN'S RIGHT ASCENSION (RADIANS)
ANS(2) = THE SUN'S DECLINATION (RADIANS)
ANS(3) = THE SUN'S RADIUS VECTOR (A,U,)

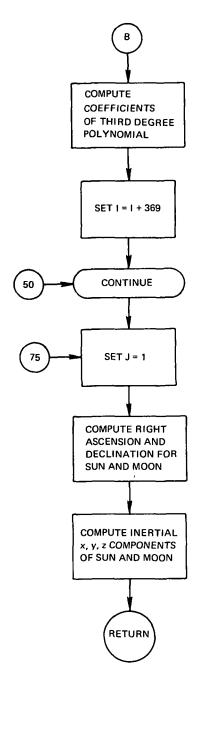
ANS(4-6) = THE INERTIAL X. Y. Z COORDINATES OF THE SUN (AU)

ANS(7) = THE MOON'S RIGHT ASCENSION (RADIANS)
ANS(8) = THE MOON'S DECLINATION (RADIANS)
ANS(9) = THE MOON'S RADIUS VECTOR (EARTH RADII)

ANS(10=12) = THE INERTIAL X, Y, Z GOORDINATES OF THE MOON (ER SUBPROGRAMS REQUIRED SUBROUTINE TABLE







\*\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*\*LANGUAGE#FORTRAN IV

\*\*\*\*\*\*\*\*\*ACHINE-GE 625

# \*\*\*\*\*\* PURPOSE-

TO DETERMINE FROM DAILY TIME PERIODS: THAT PORTION OF THE STATED PERIOD FOR WHICH THE TOTAL SKY BACKGROUND BRIGHTNESS OF THE TARGET AS SEEN FROM A GIVEN TRACKING STATION WILL BE LOWER THAN THE STATED CONSTRAINT:

#### \*\*\*\*\*\*\*METHOD=

THIS SET OF SUBPROGRAMS DETERMINES THE TOTAL SKY BACKGROUND BRIGHTNESS FOR DISCRETE UNIVERSAL TIMES OF THE CURRENT DAY, CHECKS ARE MADE EACH TIME THE TOTAL SKY BACKGROUND BRIGHTNESS IS CALCULATED TO DETERMINE IF THE GIVEN VALUE OF THIS CONSTRAINT HAS BEEN EXCEEDED OR NOT INTEGER VARIABLES N, M, L ARE USED TO RECORD THESE EVENTS. FOR THE EVENT THAT THE CONSTRAINT IS EXCEEDED, THE PROPER VARIABLE N, M, L IS GIVEN A VALUE OF ONE. IF THE CONSTRAINT IS NOT EXCEEDED THEN THE PROPER INTEGER VARIABLE IS SET TO ZERO.

USING THE 'N' AND 'M' INTEGER VARIABLES, SUCCESSIVE POINTS ARE CALCULATED IN HALF HOUR TIME INCREMENTS UNTIL A CHANGE OF EVENT UCCURS (N NOT EQUAL TO M). THE 'N' MAINTAINS THE CODE OF WHAT THE CHANGE IN EVENT IS , FROM, THE , L. VARIABLE RECORDS THE EVENT OF THE CALCULATION PERFORMED AT A TIME BETWEEN THOSE OF EVENTS 'N' AND 'M', THE CALCULATION FOR THE 'L' EVENT THEN REPLACES THOSE OF EITHER THE 'N' OR 4M' EVENT, WHICHEVER IS THE SAME AS THE 'L' EVENT, THIS PROCESS IS REPEATED UNTIL THE ROUTINE CONVERGES TO THE TIME OF EVENT CHANGE WITH AN ACCURACY OF , UOB HOURS,

THESE TIMES FOUND ARE THEN THE STARTZSTOP RELEASE TIME INTERVALS FOR SATISFYING THE TOTAL SKY BRIGHTNESS CONSTRAINT FOR A GIVEN STATION ON A GIVEN DAY.

IN ADDITION, IF THE EVENT RECORDED FOR A GIVEN UNIVERSAL TIME IS ZERO (A GOOD RELEASE TIME), THE SUBROUTINE TRACK! CHECKS TO MAKE SURE THE CONSTRAINT IS NOT EXCEEDED DURING THE EXPERIMENTAL PERIOD. IF THE BRIGHTNESS CONSTRAINT IS EXCEEDED DURING THE EXPERIMENTAL PERIOD, THEN THE UNIVERSAL TIME RECORDED IS CONSIDERED AS NOT FAVORABLE AND THE EVENT CODE FOR THAT TIME IS CHANGED TO ONE.

#### \*\*\*\*\*\*\*INPUT\_

NS	-THE NUMBER OF STATIONS USED IN THE PROGRAM
NOS(12)	-AN ARRAY CONTAINING THE STATION NUMBERS USED
R(5)	-INPUT VALUE FOR TOTAL SKY BACKGROUND BRIGHTNESS - (RAYLEIGHS)
R(7)	-MIMIMUM TRACKING PERIOD AFTER RELEASE (HOURS)
BA(12.7)	-AIRGLOW RRIGHTNESS FROM A GIVEN STATION TO THE

-GIVEN POSITION OF THE CLOUD (RAYLEIGHS)

C(12.7) #COEFFICIENT DEPENDENT UPON THE RELATIVE POSITION #OF THE TRACKING STATION TO THE CLOUD AND USED TO #SOUTH FOR THE TOTAL SKY BACKGROUND BRIGHTNESS

#ZOBIACAL LIGHT BRIGHTMESS OF A POINT IN THE SKY + (RAYLEIGHS)

ST #UNRESOLVED STAR BRIGHTNESS OF A POINT IN THE SKY = (RAYLEIGHS)

## \*\*\*\*\* OUTPUT-

WINDOW(6,5,12)-THE DAILY RELEASE WINDOW START/STOP TIMES;

+1ST INDEX FOR STORING START/STOP TIMES.

#1,3,5 FOR START TIMES #2,4,6 FOR STOP TIMES

-2ND INDEX FOR THE CONSTRAINT

- 5=TOTAL SKY BACKGROWND BRIGHTNESS -3RD INDEX FOR THE STATION NUMBER

## \*\*\*\*\*\*\*\*\*ESTRICTIONS\*

TSTOP MUST BE NUMERICALLY GREATER THAN ISTART, ONLY TWELVE STATIONS MAY BE USED, ISTOP AND ISTART ARE ACCURATE TO ONE MINUTE OF TIME.

# \*\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED=

GCTOI ZODLIT

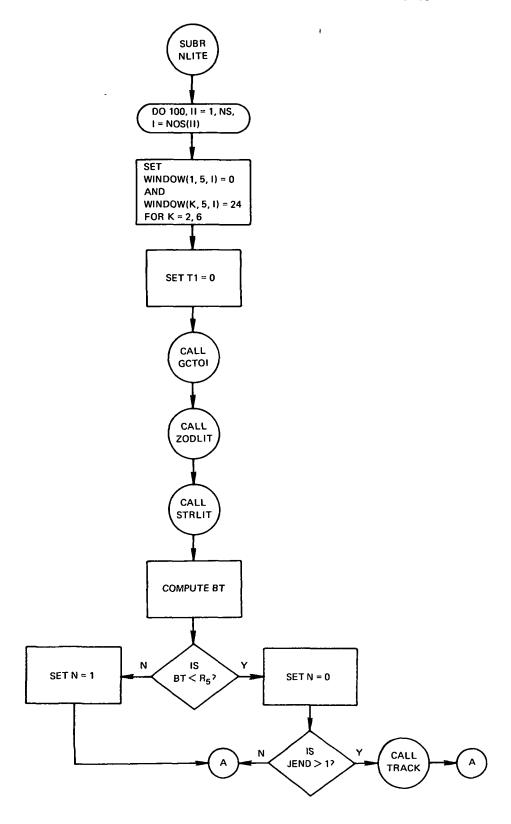
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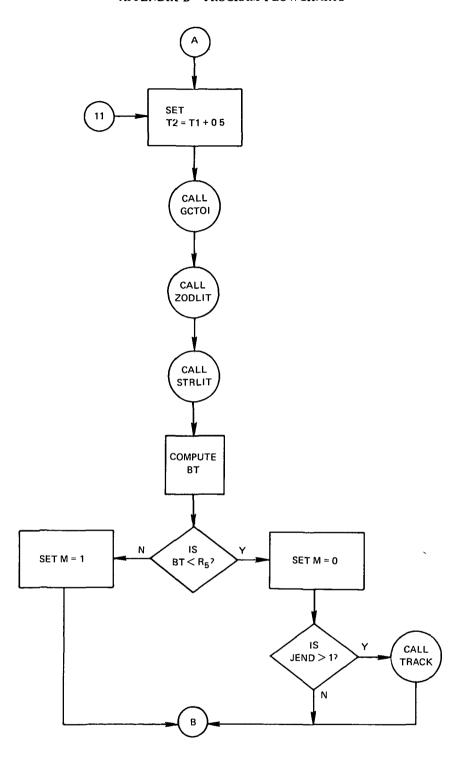
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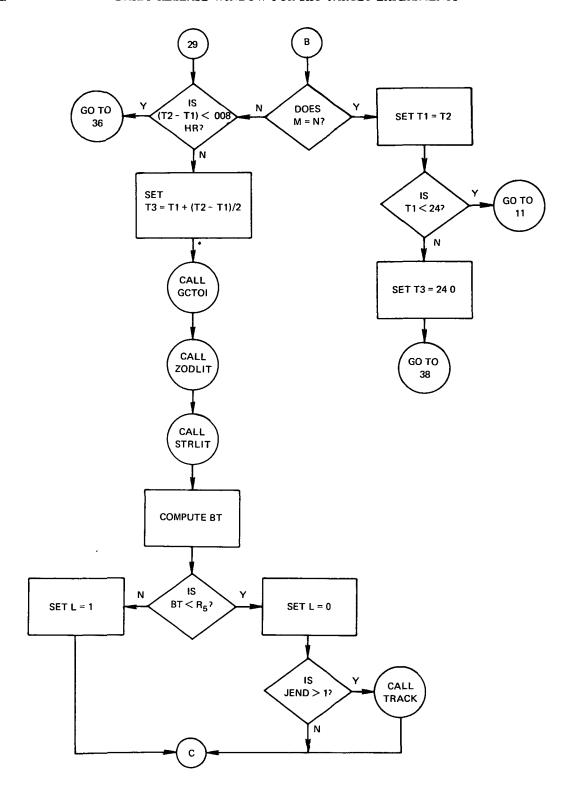
STRLIT

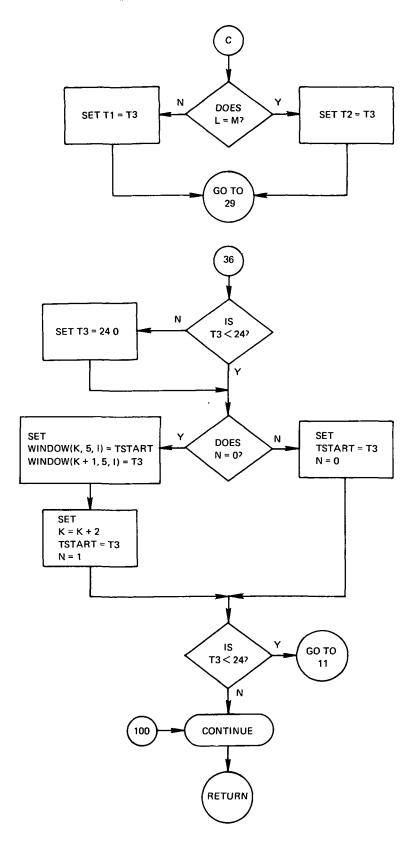
## \*\*\*\*\*\*\*KEMARK.

ONLY ELEVEN TRACKING STATIONS CAN BE USED AS INPUT IF ONE OF THESE STATIONS IS AN AIRCRAFT.



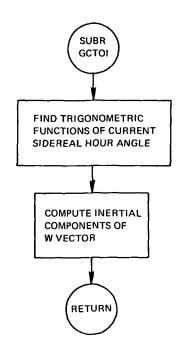






NONE

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SUBROUTINE GCTOI \* \*\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 02/01/70 \*\*\*\*\*\*\* IV \*\*\*\*\*\*\* MACHINE GE 625 \*\*\*\*\* PURPOSE-TO CONVERT GEOCENTRIC COORDINATES TO INERTIAL COORDINATES. \*\*\*\*\*\*\*METHOD= FIRST THE SIN AND COS OF THE GREENWICH MEAN SIDERIAL HOUR ANGLE IS CALCULATED FOR THE SPECIFIC TIME IN QUESTION, THESE VALUES ARE THEN USED TO SONVERT THE GEOCENTRIC COORDINATES TO INERTIAL \*\*\*\*\*\*INPUT-#GREENWICH MEAN SIDEREAL HOUR ANGLE AT ZERO HOURS GHA FUNIVERSAL TIME (HRS) 'nΧ \*GEOCENTRIC X COMPONENT OF INPUT VECTOR WY \*GEOCENTRIC Y COMPONENT OF INPUT VECTOR ₩Z \*GEOCENTRIC Z COMPONENT OF INPUT VECTOR T +CURRENT UNIVERSAL TIME (HOURS) I TRACKING STATION NUMBER HTR -CONVERSION FROM HOURS TO RADIANS DGHA -HOURLY CHANGE FOR SIDERIAL TIME \*\*\*\*\* OUTPUT-\*INERTIAL X COMPONENT OF OUTPUT VECTOR W1 W2 -INERTIAL Y COMPONENT OF OUTPUT VECTOR \*INERTIAL Z COMPONENT OF OUTPUT VECTOR ₩3 \*\*\*\*\*\*\*\*RESTRICTIONS= NONE KNOWN \*\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED=



\*\*\*\*\*\*\* SUBROUTINE ZODLIT \*\*\*\* \*\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 02/01/70 #######LANGUAGE=FORTRAN IV \*\*\*\*\*\*\*\*\* 625 \*\*\*\*\*\* PURPOSE-TO CALCULATE THE ZODIACAL LIGHT FOR A GIVEN SET OF LOOK COORDINATES \*#\*\*\*\*\*METHOD --FIRST SUBROUTINE ITE IS CALLED AND THE INERTIAL COORDINATES OF THE VECTOR FROM THE STATION TO THE TEST CLOUD ARE CONVERTED TO AN ECLIPTIC LATITUDE AND LONGITUDE. THE ECLIPTIC LATITUDE AND LONGITUDE ARE THEN MADE ABSOLUTE VALUES, SUBROUTINE ZTABLE IS THEN CALLED TO TRANSLATE THESE VALUES INTO ZODIACAL LIGHT VALUES IN RAYLEIGHS W1 WINERTIAL' X COMPONENT OF VECTOR FROM STATION(I) - TO CLOUD W2 -INERTIAL Y COMPONENT OF VECTOR FROM STATION(1) -to CLDUD FINERTIAL Z COMPONENT OF VECTOR FROM STATION(1) W3 -TO CLOUD \*\*\*\*\*\* QUTPUT

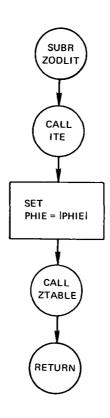
- (RAYLEIGHS)

-ZOBIACAL LIGHT BRIGHTNESS OF A POINT IN THE SKY

ZD

\*\*\*\*\*\*\*\*RESTRICTIONS-NONE

\*\*\*\*\*\*\*\*\*SUBPROGRAMS REQUIREDITE
GTABLE



H1 -INERTIAL X COMPONENT OF VECTOR FROM STATION(I)

#2 -INERTIAL Y COMPONENT OF VECTOR FROM STATION(1)
-TO CLOUD

#3 -INERTIAL Z COMPONENT OF VECTOR FROM STATION(1)

\*\*\*\*\* OUTPUTS

PHIE

RECLIPTIC LATITUDE (DEG)

OMEGAE

\*ECCIPTIC LONGITUDE (DEG)

## 

XΕ

-X COMPONENT OF INPUT VECTOR IN ECLIPTIC

-COORDINATES

●TO CLOUD

YE\_\_\_\_

-Y COMPONENT OF INPUT VECTOR IN ECLIPTIC

-COORDINATES

4E

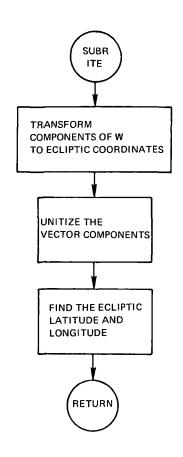
-Z COMPONENT OF INPUT VECTOR IN ECLIPTIC

-COORDINATES

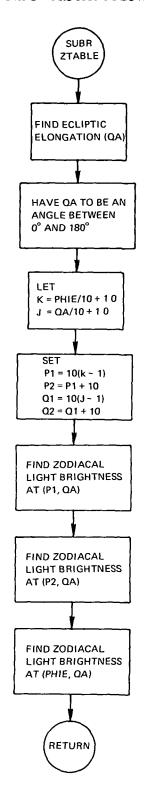
\*\*\*\*\*\*\*\*RESTRICTIONS=
NONE KNOWN

# \*\*\*\*\*\*\*SUBPROGRAMS REQUIRED\*

NONE



```
**************** SJBROUTINE ZTABLE ***********************
*******LANGUAGE=FORTRAY IV
********MACHINE-GE 625
****** PURPDSE=
       TO FIND THE ZODIASAL LIGHT BRIGHTNESS AT A PARTICULAR POINT.
THIS IS A TABLE LOOKUP WITH DOUBLE INTERPOLATION.
****** [ NPUT-
       BHIE
                  -ECLIPTIC LATITUDE (DEG)
       OMEGAE
                  -ECLIPTIC LONGITUDE (DEG)
****** OUTPUT-
       Z D
                   -ZOBIACAL LIGHT BRIGHTNESS OF A POINT IN THE SKY
                   -(RAYLEIGHS)
P1
                    "ECLIPTIC LATITUDE FOR BRIGHTNESS AT POINT 111
       P2
                   WECLIPTIC LATITUDE FOR BRIGHTNESS AT POINT 11+11
       01
                    -ECLIPTIC LONG. FOR BRIGHTNESS AT POINT 111
       ú2
                   -ECLIPTIC LONG. FOR BRIGHTVESS AT POINT +1+1*
       ZD1
                   TYALUE OF ZODIACAL LIGHT AT (P1, QA)
       4D2
                   -VALUE OF ZODIACAL LIGHT AT (22,QA)
**********ESTRICTIONS=
       NONE KNOWN
*********SUBPROGRAMS REGUIRED-
       NONE
```

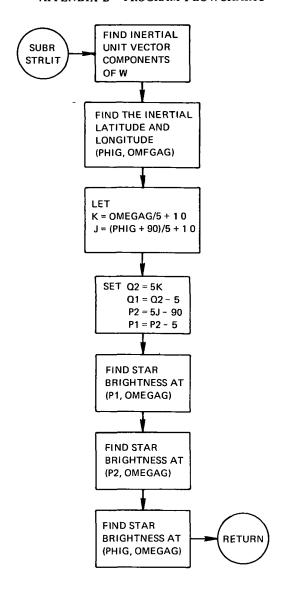


DAILY RELEASE WINDOW FOR SKY TARGET EXPERIMENTS annoncementation of the state o \*\*\*\*\*\*\*\*\*\*\* WALLOPS VERSION OF 02/01/70 \*\*\*\*\*\*\*\*LANGUAGE-FORTRAN IV \*\*\*\*\*\*\*\*\*ACHINE-GE 625 \*\*\*\*\* PURPOSE-TO CALCULATE THE STAR LIGHT BRIGHTNESS AT A GIVEN SET OF LOOK COORDINATES. \*\*\*\*\*\*\*METHODo-A TABLE LOOKUP PROCESS WITH LINEAR INTERPOLATION IS USED TO DETERMINE THE VALUE OF THE STAR BRIGHTNESS OF THE SKY BACKGROUND OF THE CLOUD AS SEEN FROM A GIVEN TRACKING STATION, THE TABLE OF STAR BRIGHTNESS VALUES HAVE BEEN TRANSFORMED INTO INERTIAL COORDINATES AITH UNITS OF TENTH VISUAL STAR MAGNITUDES PER SQUARE DEGREE, BRIGHTNESS TABLES ARE GIVEN IN S-DEGREE INCREMENTS OF LATITUDE FROM =90 DEG. TO +90 DEG. AND IN 10-DEG. INCREMENTS OF LONGITUDE FROM 0 TO 368 DEGREES. LOOK ANGLES ARE FOUND FROM THE INERTIAL RECTANGULAR COMPONENTS THEN TABLE LINEAR INTERPOLATION DETERMINES THE STAR BRIGHTNESS -INERTIAL X COMPONENT QF VECTOR FROM STATION(I) W1 - to CLOUD "INERTIAL Y COMPONENT OF VECTOR FROM STATION(I) ×2 -TO CLOUD #INERTIAL Z COMPONENT OF VECTOR FROM STATION(I) **M3** -TO CLOUD \*\*\*\*\* QUTPUT-ST -UNRESOLVED STARLIGHT BRIGHTNESS OF A POINT IN

-THE SKY (RAYLEIGHS)

#######RESTRICTIONS= FORTRAN MEMORY LIMITS MUST BE INCREASED TO 30% FOR COMPILING THIS SUBROUTINE

\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED= NONE



\*\*\*\*\*\*\*\*LANGUAGE=FORTRAY IV

\*\*\*\*\*\*\*\*MACHINE-GE 625

PURPUSE-

TO DETERMINE IF THE TOTAL SKY BACKGROUND BRIGHTNESS WILL EXCEED THE CONSTRAINT LIMITATION DURING THE REQUIRED EXPERIMENTAL PERIOD.

\*\*\*\*\*\*\*\*\*ETHOD-

GIVEN A FAVORABLE TIME OF RELEASE FOR STATION(I) FROM SUBROUTINE NLITE, DETERMINE IF THE TOTAL SKY BACKGROUND BRIGHTNESS IS EXCEEDED DURING THE EXPERIMENTAL PERIOD BY CHECKING THIS AT 30 MINUTE INTERVALS. THE INTERTIAL RECTANGULAR

COMPONENTS OF THE VECTOR FROM STATION(I) TO THE CLOUD, S
POSITION DURING THE EXPERIMENTAL RERIOD ARE FIRST CALCULATED.
THE VALUES OF ZODIACAL LIGHT AND STARLIGHT ARE DETERMINED
THROUGH SUBROUTINGS ZODLIT AND STALIT RESPECTIVELY, THEN THE
TOTAL SKY BACKGROUND BRIGHTNESS IS CALCULATED USING THE
RESPECTIVE VALUES OF AIRSLOW BRIGHTNESS AS FOUND IN
SUBROUTINE EPAIR, THEN THE TOTAL SKY BACKGROUND BRIGHTNESS IS
CHECKED AGAINST THE GIVEN CONSTRAINT; IF THE GIVEN CONSTRAINT IS
EXCEEDED AT ANY POINT CHECKED; THEN THE EVENT CODE INI IS SET TO
ONE AND THE SUBROUTINE TERMINATES.

### 

R(5)	= INE					FO	₹ 1	rot	AL	, 5	<b>&lt;</b> Y	8	40	Kg	RO	JNE	) 1	BR 1	GH	TNE	SS
GHA	-GRE									ÁL	' <b>ų</b>	יטס	₹	A V	GĻI	E #	T	ZE	RO	н	URS
BA(12,7)	-418 -814																		<b>T</b> 0	T	4E
C(12,7)	-COE -OF -SOL	THE	T	RA	CK	ING	3 5	TA	TI	Q٧	T	) 1	ч	Ē	CLC	)UD	) /	AND	Ų	SED	T 0
	MUK- exs-											ST	OĄ	ξEΙ	F	OR					
	-ZOB					17	8 R	ļG	HTI	NES	58	OF	A	ı F	,01	NT	1	N	THE	S	ΚY
57	+JNR +(RA	eso Y L E	VE I GI	15 )	S1	AR	8	R I (	344	T V E	SS	J	5	Á	PQ	IN	7	IN	TH	E	SKY
WPX(12,7)	-VAL	ŢĮO:	OF N 1	GE 70	0 C	EN OU	TR D	IG A T	X D !	ة 20	MP	ON Te	EN	T I M	OF Es	V	EC	†Oj ER	RE	RO LE	M A S E
	-VAL																				
	-YAL																				

### \*\*\*\*\*GUTPUTA

T

Į

N #EVENT CODE - #0, IF BT, LT.R(5) - #1, IF BT, GT.R(5)

-STATION NUMBER

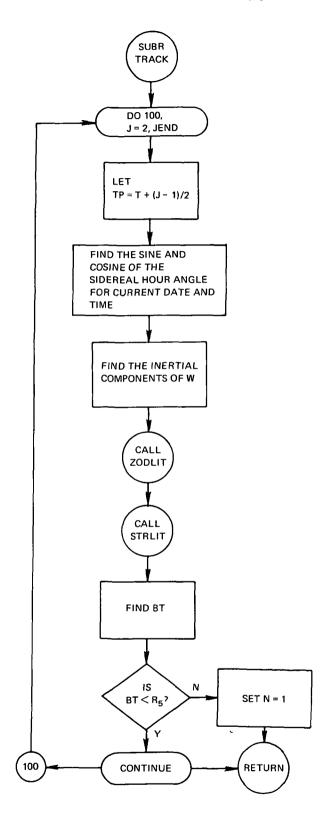
### 

THIS SUBROUTINE AGCEPTS JP TO A MAXIMUM OF THELVE TRACKING STATIONS AND COMPUTES A MAXIMUM OF SEVEN DISCRETE POINTS AT 30 MINUTE INTERVALS BURING THE EXPERIMENTAL PERIOD.

PRESENT UNIVERSAL TIME FOR RELEASE

## \*\*\*\*\*\*\*SUBPROGRAMS REQUIRED\*

ZODLIT ITE ZTABLE STRLIT



```
********NASA WALLOPS VERSION OF 02/01/70
#######LANGUAGE-FORTRAN IV
********* 625
*******PURPOSE»
       TO WRITE THE DAILY RELEASE TIMES PER CONSTRUKT PER STATION ON
       OUTPUT FILE Q7.
*******METHOD=
       GIVEN THE PROPER BONSTRAINT INDEX NUMBER, WRITE THE CONSTRAINT
        INDEX NUMBER, THE CURRENT DATE, THE CONSTRAINT NAME, THE STATION
        NAME (IF NOT EARTH SHADOW CONSTRAINT), THE CALCULATED RELEASE
        START, STOP TIMES, AND THE STATION NUMBER IN PROPER BCD FORMAT TO
        INSURE CORRECT PRINTING IN SUBROUTING . DUTTPE ..
-INDEX FOR CONSTRAINTS
                     WELLEARTH SHADON
                     -- 2 NOT USED
                     -=3; SUÑ
                     ##4; MOOV
                     -=5"TOTAL SKY BACKGROUND BRIGHTNESS
        DJUL
                     -JULIAN DATE FOR CURRENT DATA
       WINDOW(6,5,12) THE DAILY RELEASE WINDOW START/STOP TIMES.
                     #1ST INDEX FOR STORING START/STOP TIMES.
                     -1,3,5 FOR START TIMES
                     -2,4,6 FOR STOP TIMES
                     TRIAFTERCO BHT FOR XBORI DAS-
                     - 1=EARTH SHADOW
                       2=ELEVATION
                        3=SUN
                        4 = MDON
                       5#TOTAL SKY BACKGROUND BRIGHTNESS
       NS
                     -THE NUMBER OF STATIONS USED IN THE PROGRAM
                     -AN ARRAY CONTAINING THE STATION NUMBERS USED
       NOS(12)
*******OUTPUT-
       ON FILE 07
                     -INDEX FOR CONSTRAINTS
       ĸ
                     -- 1. EARTH SHADDA
                     -*2,NOT JSED
                   ~ -=3,SUÑ
                     40CM, 4=-
                     -#5; TOTAL SKY BACKGROUND BRIGHTNESS
       IDAY
                     -DAY NUMBER FOR DATE OF SURRENT DATA
       IMONTH
                     ATAC TYPRING TO STAD BY BY HTROME
       MONTH
                     -MAME OF MONTH CORRESPONDING TO IMONTH
       IYEAR
                     TYEAR FOR DATE OF CURRENT DATA
       NRESTR(3)
                     PALPHANUMERIC NAME OF BONSTRAINT
```

#### -NAME OF TRACKING STATIONS USED NAME (3,12)

WINDOW(6,5,12) - THE DAILY RELEASE WINDOW START/STOR TIMES. -1ST INDEX FOR STORING START/STOP TIMES. -1,3.5 FOR START TIMES -2.4.6 FOR STOP TIMES -2ND INDEX FOR THE GONSTRAINT 1=EARTH SHĂDOW

2=ELEVATION

3=SUV # 4mMOON

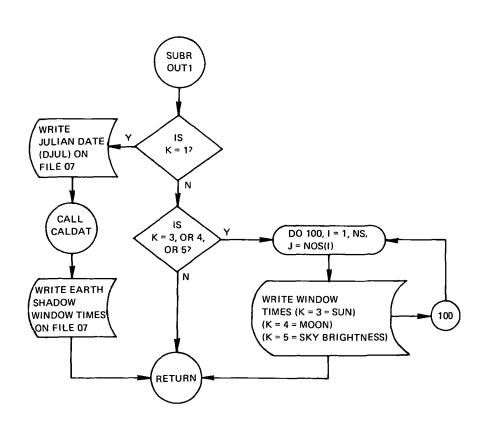
5\*TOTAL SKY BACKGROUND BRIGHTNESS

-COBE TO SUBROUTINE OUTTPE TO SIGNAL THAT STATION -BEING READ IS FIRST ONE FOR THAT PARTICULAR -CONSTRAINT OR IT IS NOT

## \*\*\*\*\*\*RESTRICTIONS-

THIS SUBROUTINE IS SPECIFICALLY DESIGNED FOR PRINTING THE PARAMETERS GENERATED BY THE CURRENT VERSION OF PROGRAM 'BICWINDOW!

### SUBPROGRAMS REQUIRED-CALDAT



\*\*\*\*\*\*\*\*\* IV

\*\*\*\*\*\*\*\*\*\*\* 625

\*\*\*\*\*\*PURPOSE-

TO FIND THE DATE OF THE CURRENT DAY

### \*\*\*\*\*\*\*\*\*ETHODO

GIVEN THE YEAR FOR MHICH THE CALCULATIONS BEGIN(KYEAR), AND THE CURRENT NUMBER OF DAYS PAST JANUARY 8 OF THE GIVEN YEAR (IDAY). FIRST DETERMINE IF THE GIVEN YEAR IS THE CURRENT YEAR BY DETERMINING IF 'IDAY' IS BETWEEN 0 AND 365 (366 IF 'KYEAR' IS A LEAP YEAR), THE CURRENT YEAR IS THEN STORED (IYEAR) AND ADJUSTMENT IS MADE TO 'IDAY' TO REFLECT THE NUMBER OF DAYS PAST JANUARY 0 OF 'IYEAR'.

A TABLE OF VALUES IS GIVEN FOR THE NUMBER OF DAYS IN EACH MONTH (ADJUSTMENT MADE FOR FEBRUARY OF A LEAP YEAR). THE MONTH NUMBER IS THEN FOUND BY CHECKING AND ADJUSTING 'IDAY'.

### \*\*\*\*\*\*\*\*NPUT

KYEAR -YEAR NUMBER FOR STARTING CALCULATIONS

IDAY -CURRENT NUMBER OF DAYS PAST JANUARY O OF KYEAR

#### \*\*\*\*\*\*QUTPUT-

IYEAR -YEAR FOR DATE OF CURRENT DATA

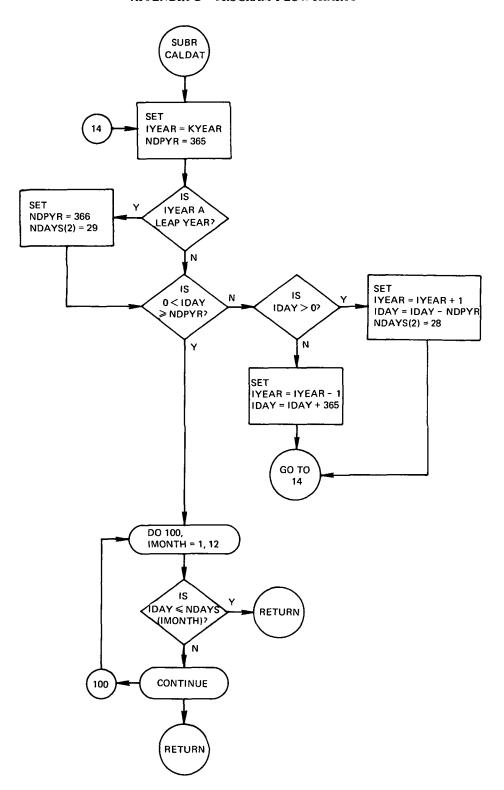
IMONTH -MONTH FOR DATE OF GURRENT DATA

IDAY -DAY NUMBER FOR DATE OF SURRENT DATA

### \*\*\*\*\*\*\*RESTRICTIONS

THIS SUBROUTINE WILL: COMPUTE THE YEAR MONTH NUMBER, AND DAY FOR ANY YEAR EXCEPT THOSE YEARS FOR WHICH !!YEAR/4! IS AN INTEGRAL VALUE BUT !!YEAR! IS NOT A LEAP YEAR (I.E. THE YEAR 2000).

\*\*\*\*\*\*\*\*SUBROUTINES REGJIRED\*



\*\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 02/01/70 \*\*\*\*\*\*\*LANGUAGE=FORTRAN IV \*\*\*\*\*\*\* 625 \*\*\*\*\*\*\*PURPOSE TO COMPUTE THE COMBINED DAILM RELEASE WINDOW FOR THE BIC PROJECT

\*\*\*\*\*\*\*METHOD-

GIVEN THE DAILY RELEASE WINDOWS AS CALCULATED FOR EACH STATION AND FOR EACH CONSTRAINT, THE RESULT OF THIS SUBROUTINE IS TO DEFINE TIME INTERVALS FOR THE CURRENT DAY HHICH SATISFY EACH OF THE GIVEN TIME INTERVALS ALREADY FOUND FOR EACH STATION AND FOR EACH CONSTRAINT, THE METHOD CAN BE DIVIDED INTO THREE PHASES. FIRST, FIND THE INTERSECTION OF THE DAILY RELEASE WINDOWS FOUND FOR THAT STATION FOR EACH CONSTRAINT, THOSE INTERSECTING INTERVALS FOUND ARE THEN STORED IN THE IAI AND IB! ARRAYS. SECOND, THE INTERSECTION OF THE TIME INTERVALS DEFINED IN THESE ARRAYS ARE THEN DETERMINED AND STORED IN 101 AND 101 ARRAYS, THIRD, THESE TIME INTERVALS ARE COMBINED WITH PREVIOUSLY COMPUTED CASES OF THIS JOB THRU SUBROJTINE ICAS, THESE ARE THEN STORED ON FILE OF FOR PLOTTING AND/OR PRINTING.

### 

NS -THE NUMBER OF STATIONS USED IN THE PROGRAM

NOS(12) -AN ARRAY CONTAINING THE STATION NUMBERS USED

WINDOW(6,5,12)-THE DAILY RELEASE WINDOW START/STOR TIMES.

-1st INDEX FOR STORING START/STOP TIMES, -1,3,5 FOR START TIMES

-2,4,6 FOR STOP TIMES

-2ND INDEX FOR THE CONSTRAINT

TEARTH SHADOW

2=ELEVATION

3=5UY

4 = MÓON

5ºTOTAL SKY BACKGROUND BRIGHTNESS

DJUL -JULIAN DATE FOR CURRENT DATA

NDPJU -NUMBER OF DAYS PAST EROCH DATE TO DATE FOR

-STARTING CALCULATIONS (INTEGER)

NDTE -NUMBER OF DAYS PAST EROCH DATE TO DATE FOR

-STOPPING CALCULATIONS (INTEGER)

CASE -INTEGER VALUE OF CASE NUMBER

IFINAL -INTEGER CODE NOTING LAST CASE

> ##0 MORE CASES TO FOLLOW WE1: THIS IS THE FINAL BASE

-CURRENT NUMBER OF DAYS FROM FIRST DAY GALCULATED

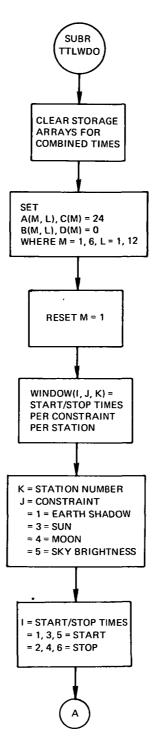
\*\*\*\*\*\*\*OUTPUT=

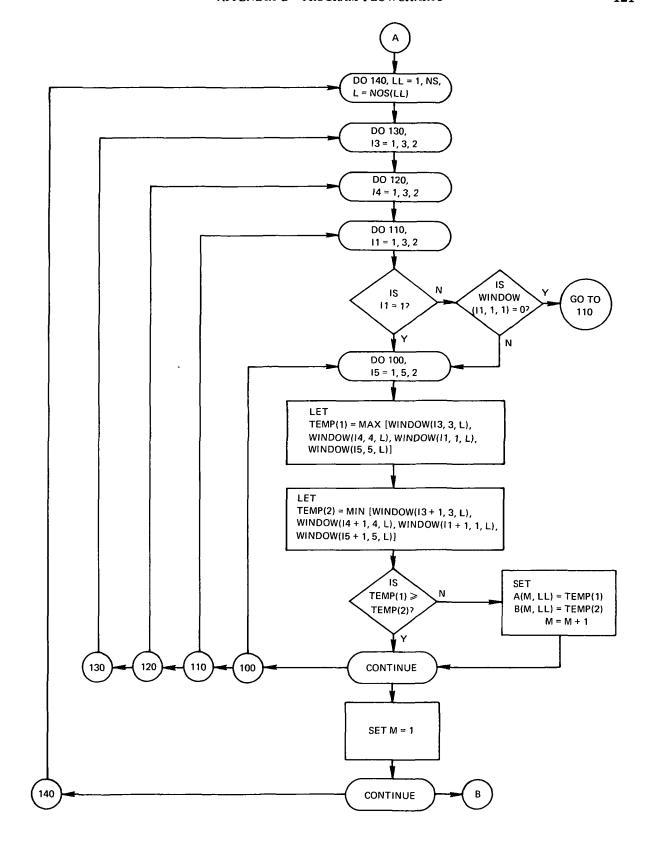
PJUL -JULIAN DATE FOR CURRENT DATA

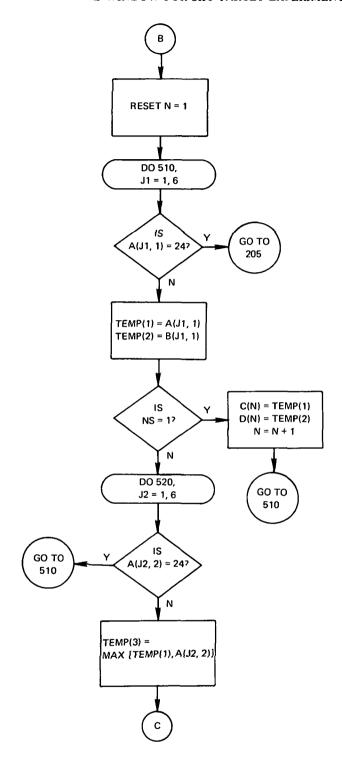
ĮYEAR	MYEAR FOR DATE OF CURRENT DATA
1 MONTH	+MONTH FOR DATE OF CURRENT DATA
IDAY	ATAD THERRUS TO BIAD SCREENUM VADE
Ç(6)	-ARRAY OF COMBINED WINDOW START TIMES FOR CURRENT "PATE
P(6)	-ARRAY OF COMBINED WINDOW STOP TIMES FOR CURRENT -DATE
E(6)	-ARRAY OF COMBINED WINDOW START TIMES FOR CURRENT -DATE FOR ALL INPUT CASES
F(6)	-ARRAY OF COMBINED WINDOW STOP TIMES FOR CURRENT BATE FOR ALL INPUT CASES

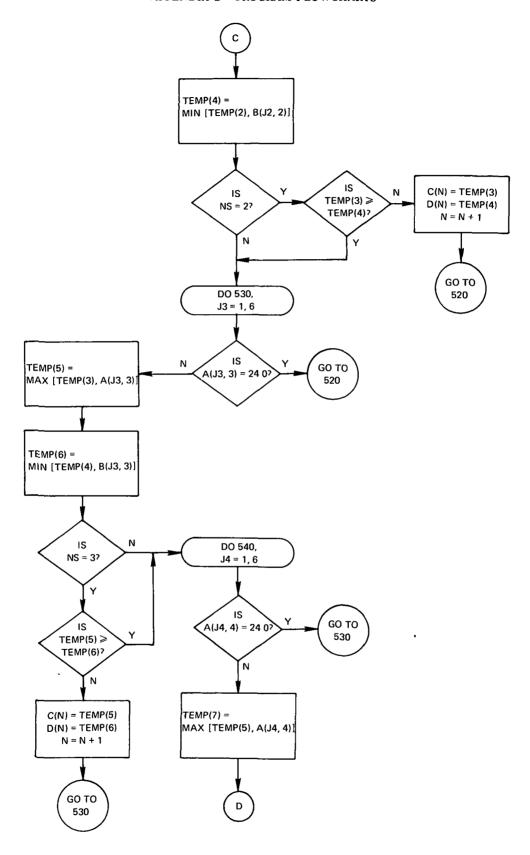
### \*\*\*\*\*\*\*RESTRICTIONS

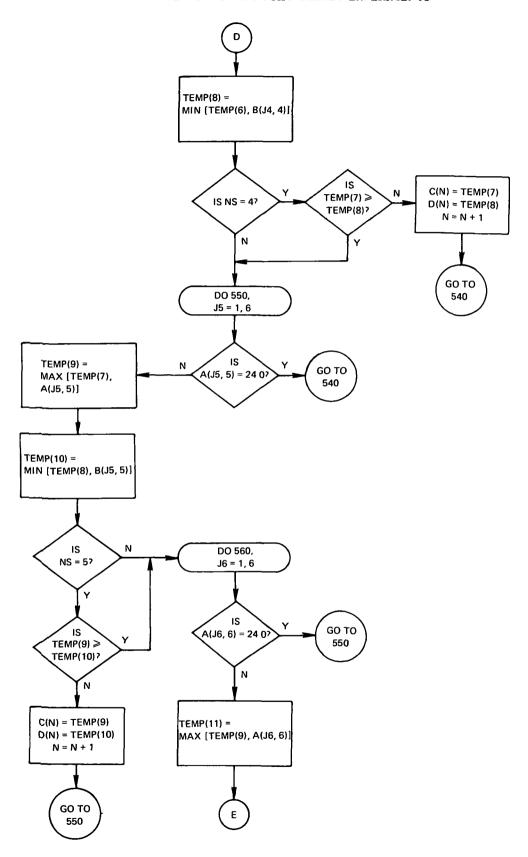
UNLY THOSE CONSTRAINTS AS CURRENTLY COMBUTED IN THE BICHINDOW COMPUTER PROGRAM CAN BE COMBINED. UP TO A MAXIMUM OF THELVE TRACKING STATIONS CAN BE COMBINED. A MAXIMUM OF SIX COMBINED INTERVALS CAN BE COMPUTED FOR A GIVEN DAY

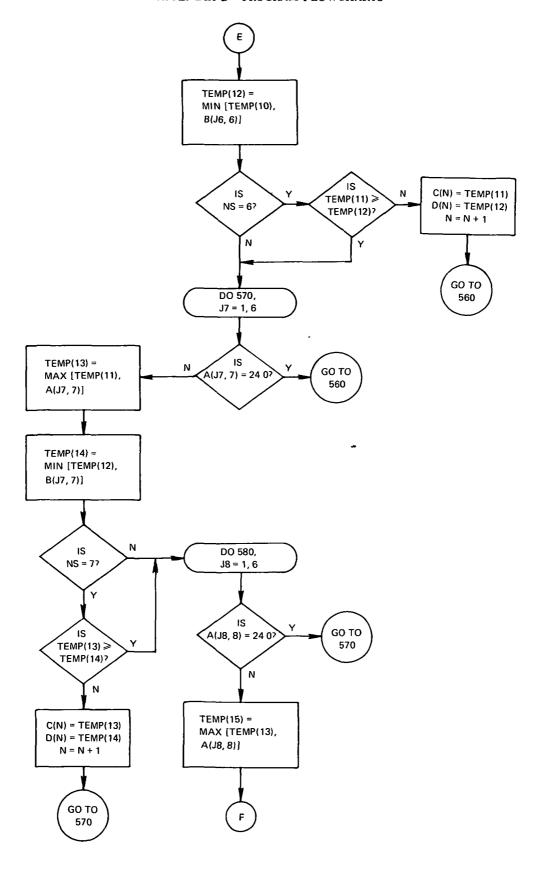


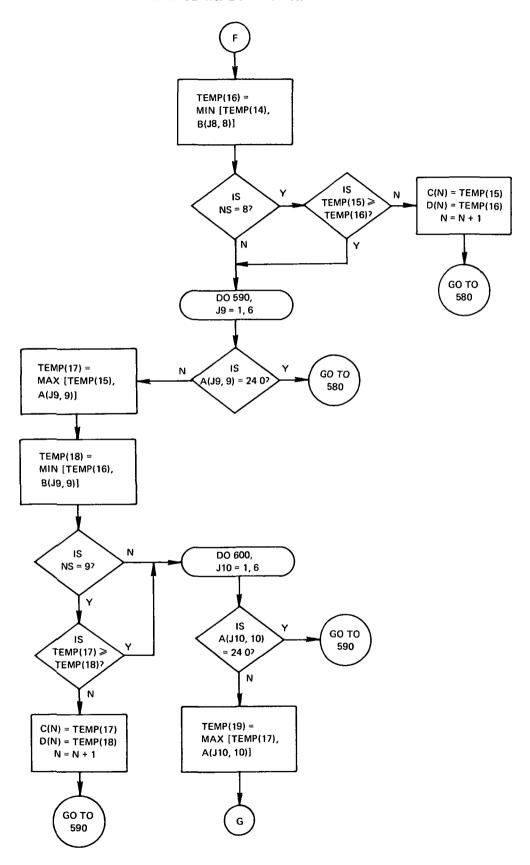


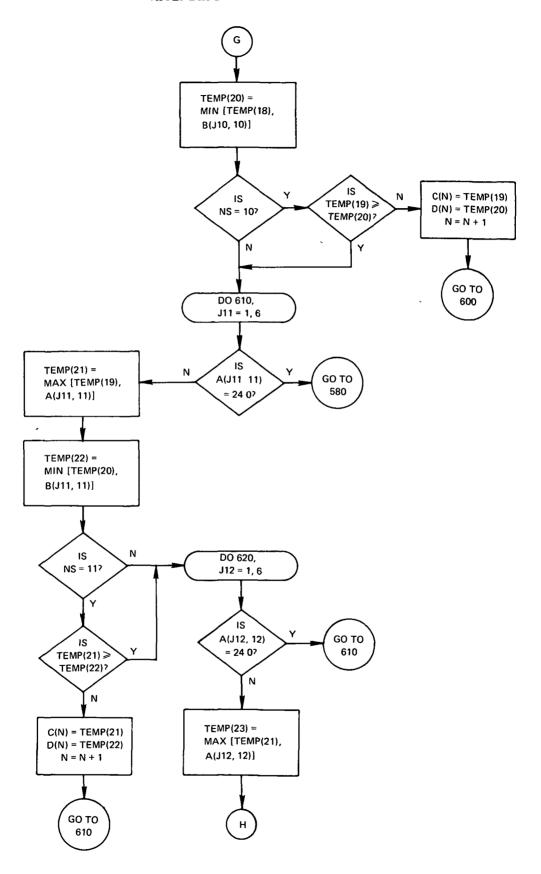


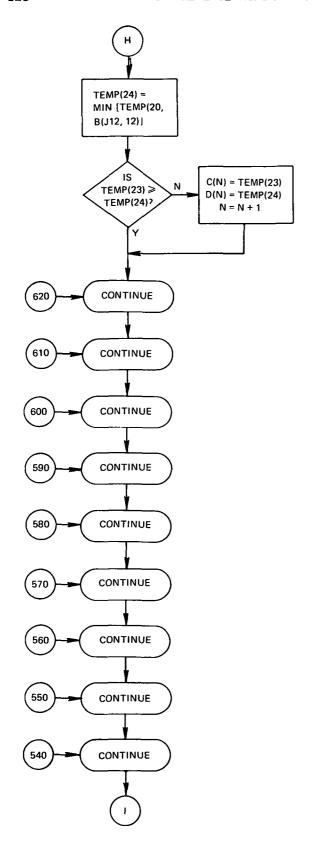


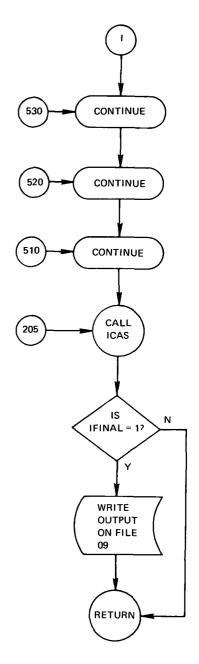












#deteessetEMPORARY FILE 9 DATAssessessessessessessessessesses

\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 05/01/71

\*\*\*\*\*\*\*\*LANGUAGE-FORTRAN IV

\*\*\*\*\*\* MACHINE GE 625

\*\*\*\*\*\*PURPOSE-

TO CALCULATE A COMBINED RELEASE WINDOW FOR VARIOUS RELEASE POINTS AND/OR DEFINED PROBLEM CONSTRAINTS (EXCLUDING THE SUN AND MOON CONSTRAINTS);

\*

THE MOST RECENT COMBINED RELEASE WINDOW CALCULATED BY SUBROUTINE TITLED IS COMBINED WITH THOSE OF PRIOR RUN CASES WITHIN THIS JOB, FOR THE FIRST CASE THE WINDOW IS ONLY RECORDED ON THE TEMPORARY FILE 13. JULIAN DATES ARE CHECKED TO INSURE COMPATIBILITY.

## \*\*\*\*\*\*\*!NPUT-

PJUL	JULIAN DATE FOR CURRENT DATA,
Ç(6)	-ARRAY OF MOST RECENT GASE OF COMBINED WINDOW -START TIMES FOR CURRENT DATE:
D(6)	-ARRAY OF MOST RECERT GASE OF COMBINED WINDOW -STOP TIMES FOR CURRENT DATE,
ICASE	-CASE NUMBER
IDAY	SCURRENT NUMBER OF BAYS FROM FIRST DAY CALCULATED

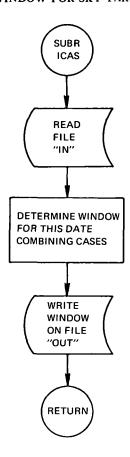
## 

A(6)	-ARRAY OF TOTAL CASES SO FAR CO	
	-COMBINED MINDOM START TIMES FO	OR CURRENT DATE.
B(6)	MARRAY OF TOTAL CASES SO FAR CO	
	-COMBINED WINDOW STOP TIMES FOR	R CURRENT DATE.

### \*\*\*\*\*\*\*RESTRICTIONS\*

ONLY THOSE CONSTRAINTS CURRENTLY DEFINED IN THE BICHINDOW COMPUTER PROGRAM DAN BE COMBINED.

\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED=



\*\*\*\*\*\*\*\*\*NAŞA WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*LANGUAGE-FORTRAN IV

\*\*\*\*\*\*\*\*MACHINE-GE 625

\*\*\*\*\*\*\*PURPOSE-

TO UTILIZE THE PROPER SUBROUTINES FOR OUTPUT PRINTING AND/OR PLOTTING FOR THE TIME PERIOD AS REQUESTED ON INPUT CARD 'B'.

######METHOD-

THIS SUBROUTINE CALCULATES THE JULIAM DATE FOR THOSE DATES REQUESTED FOR PRINTING AND/OR PLOTTING IT THEN CALLS THE PROPER SUBROUTINES TO EXECUTE THE PRINTING AND/OR PLOTTING AS REQUESTED, IF NO PRINTING OR PLOTTING IS DESIRED THEN THE SUBROUTINE TERMINATES AFTER FINDING THE JULIAN DATES DEFINED ABOVE.

\*

KMQ -MONTH PLOTTING ANDFOR PRINTING TO BEGIN

KDA -DAY PLOTTING AND/OR PRINTING TO BEGIN KYR MYEAR PLOTTING AND/OR PRINTING TO BEGIN MUNTH PLOTTING AND/OR PRINTING TO END LMO FBAY PLOTTING AND/OR PRINTING TO END LDA -YEAR PLOTTING AND/OR PRINTING TO END LYR IPRT7 -INTEGER CODE TO SIGNAL REQUEST PRINTING FILE OF -DATA -- OIPRINT FILE OF DATA -#1:DO NOT PRINT FILE 87 DATA IPRT9 -INTEGER CODE TO SIGNAL REQUEST PRINTING FILE 09 -DATA -#0 PRINT FILE 09 DATA -#1, DO NOT PRINT FILE 89 DATA FINTEGER CODE TO SIGNAL REQUEST PLOTTING DATA IPLOT WEO: CREATE A TAPE FOR PLOTTING DATA FOR A CALENDAR YEAR THROUGH FILE O1 AT 556 BPI -- 1: CREATE A TAPE FOR PLOTTING DATA FOR A

CALENDAR MONTH THROUGH FILE 01 AT 556 BPI ==2, DO NOT CREATE A PLOT TAPE

ICASE -CASE NUMBER

#### #######OUTPUTo

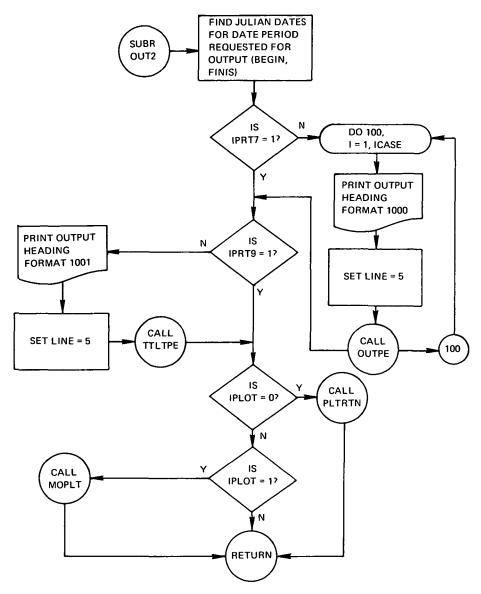
BEGIN -JULIAN DATE TO BEGIN BRINTING AND/OR PLOTTING -JULIAN DATE TO STOP RRINTING AND/OR PLOTTING FINIS \*LINE COUNT USED TO SKIP TO NEW PAGE AND PRINT LINE -HEADING

#### \*

THIS SUBROUTINE REQUIRES THE EXISTENCE OF FILES OF AND OF AND IF EITHER IS TO BE USED THEN THE DATA MUST EXIST FOR THOSE DATES REQUESTED.

### \*\*\*\*\*\*\*SUBPROGRAMS REQUIRED=

DAYNUM OUTTPE TTLTPE PLTRIN



\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*LANGUAGE-FORTRAN IV

\*\*\*\*\*\*\*\*\*\*\* 625

\*\*\*\*\*\*\*PURPOSE-

TO PRINT THE DAILY RELEASE WINDOW DATA FOR EACH CONSTRAINT AND FOR EACH STATION.

-d----METHOD-

THE DAILY RELEASE WINDOW TIMES CALCULATED FOR EACH STATION AND EACH CONSTRAINT STORED ON FILE OF IS FIRST READ BY THIS SUBROUTINE, THE DATA IS THEN PRINTED IN HOURS AND MINUTES FOR THOSE BAYS WITHIN JULIAN DATES \*\*BEGIN\*\* AND \*\*FINIS\*\*, THE DATE, CONSTRAINT NAME AND STATION NAME ARE PRINTED ALONG WITH THE

TIME INTERVALS IN VARIED FORMATS. THIS PROBARM WILL TERMINATE IF THE JULIAN DATE OF THE CURRENT TAPE RECORD BEING READ IS EITHER GREATER THAN (FINIS) OR EQUAL TO 9990.

#### \*\*\*\*\*\*\*INPUT-

UN FILE 07

LINE -LINE COUNT USED TO SKIP TO NEW PAGE AND PRINT

-HEADING

BEGIN -JULIAN DATE TO BEGIN RRIVTING AND/OR PLOTTING

FINIS -JULIAN DATE TO STOP PRINTING AND/OR PLOTTING

DULL -JULIAN DATE FOR CURRENT DATA

K -INDEX FOR CONSTRAINTS

-#4, MOON

-#1, EARTH SHADON

-2.ÑDT JSED -23.SUÑ

-#5, TOTA. SKY BACKGROUND BRIGHTNESS

IDAY -DAY NUMBER FOR DATE OF CURRENT DATA

ATAC TYPRUB TO STAC STACE HTWOM-

TYEAR -YEAR FOR DATE OF CURRENT DATA

NRESTR(3) -ALPHANUMERIC NAME OF CONSTRAINT

NAME(3,12) - WAME OF TRACKING STATIONS USED

WINDOW(6) THE DAILY RELEASE WINDOW START/STOP TIMES.

-1ST INDEX FOR STORING START/STOP TIMES.

-1,3.5 FOR START TIMES -2.4.6 FOR STOP TIMES

#### \*\*\*\*\*\*\*\*OUTPUT

UN FILE 06-PRINTER

IDAY PARTY YARE FOR DATE OF CURRENT DATA

IMONTH -HOWTH FOR DATE OF CURRENT DATA

IYEAR #YEAR FOR DATE OF CURRENT DATA

NRESTR(3) -ALPHANUMERIC NAME OF CONSTRAINT

NAME(3) - VAME OF TRACKING STATIONS USED

IH(6) #INTEGRAL HOUR VALUE OF START/STOP TIMES

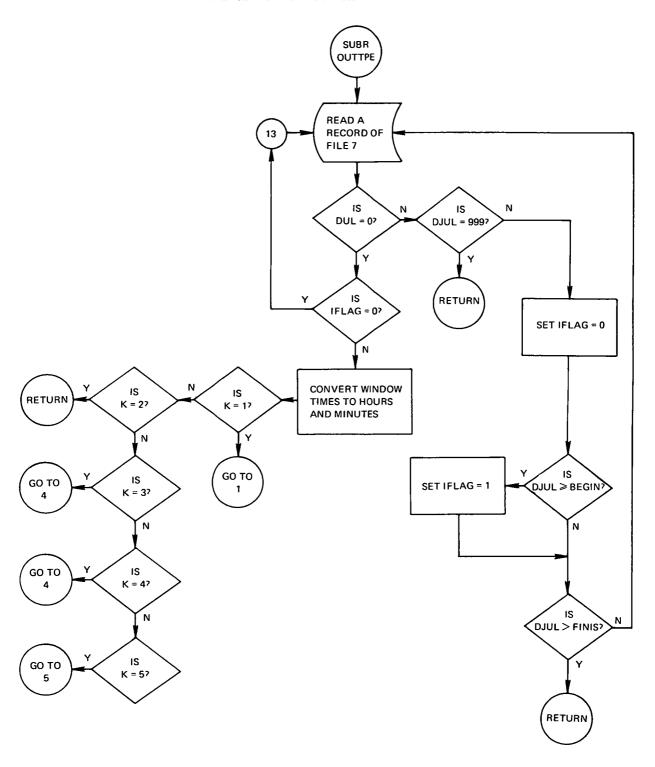
JW(6) FINTEGRAL MINUTE VALUE OF STARTISTOR TIMES

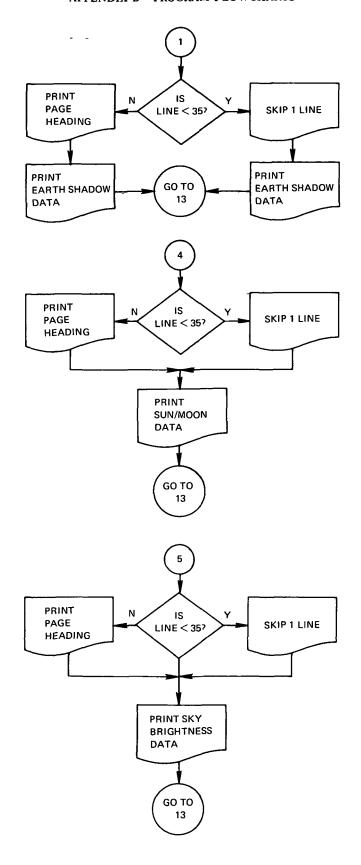
#### \*\*\*\*\*\*\*\*RESTRICTIONS

THE NUMBER OF TIME INTERVALS PER GONSTRAINT IS FIXED BY THE REQUIREMENTS OF THE PROGRAM. SUBROUTINE DUTPUTS TIME VARIABLES WITH NO GREATER ACCURACY THAN ONE MINUTE.

## \*\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED-

NONE





 $\verb""" as a constraint a substitute of the constraint and the constra$ 

\*\*\*\*\*\*\*\*\* WALLOPS VERSION OF 02/01/70

\*\*\*\*\*\*\*LANGUAGE=FORTRAN IV

------ 625

\*\*\*\*\*\*\*PURPOSE-

TO PRINT THE TOTAL COMBINED WINDOW DATA FOR THE DATES REQUESTED

\*\*\*\*\*\*\*METHODe

THE COMBINED WINDOW DATA STORED ON FILE OF IS READ BY THIS SUBROUTINE, IT IS CONVERTED TO HOURS AND MINUTES BEFORE PRINTING A CHECK IS MADE TO SEE IF THE JULIAN DATE OF THE CURRENT RECORD IS WITHIN THE DATES REQUESTED FOR PRINTING, ONLY THE BLOCK OF DATA WITHIN THE DATES REQUESTED IS PRINTED AND ONLY THOSE TRUE LATA INTERVALS ARE PRINTED, AN END OF FILE CODE WHERE THE JULIAN DATE FOUALS 999.0 IS USED TO TERMINATE THIS SUBROUTINE.

### 

UN FILE 09

EPOCH -JULIAN DATE OF JANUARE O OF YEAR DATA BEGINS ON -FILE 09

DJUL -JULIAN DATE FOR CURRENT DATA

IDAY -DAY NUMBER FOR DATE OF CURRENT DATA

ATAD TRANSPORTED TATE OF SURRENT DATA

IYEAR -YEAR FOR DATE OF CURRENT DATA

BEGIN -JULIAN DATE TO BEGIN RRINTING AND/OR PLOTTING

FINIS = JULIAN DATE TO STOR RRINTING AND/OR PLOTTING

LINE -LINE COUNT USED TO SKIP TO NEW PAGE AND PRINT

-HEADING

C(6) -ARRAY OF COMBINED WINDOW START TIMES FOR CURRENT

-DATE

D(6) -ARRAY OF COMBINED WINDOW STOP TIMES FOR CURRENT

-BATE

#### \*

### FILE 06-PRINTER

DJUL -JULIAN DATE FOR CURRENT DATA

IDAY -- DAY NUMBER FOR DATE OF SURRENT DATA

ATA THOUTH FOR DATE OF SURRENT DATA

IYEAR #YEAR FOR DATE OF CURRENT DATA

IC(6) -INTEGRAL VALUE OF START TIME HOURS

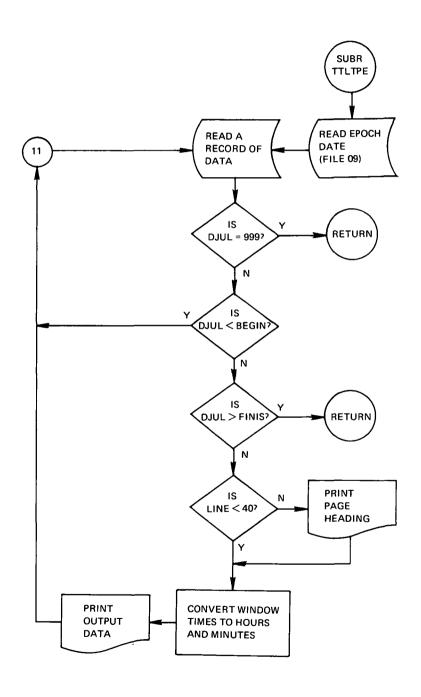
JC(6) -INTEGRAL VALUE OF START TIME MINUTES

ID(6) -INTEGRAL VALUE OF STOR TIME HOURS

JD(6) -INTEGRAL VALUE OF STOR TIME MINUTES

\*\*\*\*\*\*\*\*RESTRICTIONS

UP TO SIX DIFFERENT COMBINED WINDOW TIME INTERVALS CAN BE READ AND PRINTED



\*\*\*\*\*\*\*\*NAŞA WALLOPS VERSION OF 01/01/69

\*\*\*\*\*\*\*\*LANGUAGE=FORTRAN IV

#######MACHINE-GE 625

######PURPOSE-

TO GRAPH THE COMPUTED RELEASE WINDOW TIMES FOR A GIVEN YEAR OR PORTION OF A YEAR.

THIS SUBROUTINE USES EXISTING CALCOMB LIBRARY ROUTINES TO PLOT THE RELEASE TIMES CALCULATED FOR THE BIG PROJECT THROUGH THIS PROGRAM ONTO A GRID AS SET JP IN SUBBOJTINE CALDOR, THE INPUT POSITION OF THE RELEASE POINT, THE TRACKING STATIONS USED AND THE VALUE OF EACH CONSTRAINT IS GIVEN IN THE PLOT LABELLING, RELEASE TIMES PLOTTED ARE THOSE DAILY TIMES RECORDED ON FILE DO BY THIS PROGRAM.

#### \*\*\*\*\*\*\*\*RESTRICTIONS=

THIS SUBROUTINE WILL DLOT DATA ONLY FOR A GIVEN CALENDER YEAR OR PORTION OF IT, BLOTTING OF THO OR MORE CALENDAR YEARS REQUIRES THAT THE PROGRAM BE REINITIATED FOR PLOTTING EACH CALENDAR YEAR, THIS RESTRICTION IS DUE TO THE GRID PLOT GENERATED THROUGH SUBROUTINE CALONR, A CHECK IS MADE TO INSURE THE NUMBER OF DAYS PAST JANJARY 1 OF THE GIVEN CALENDAR YEAR IS NO MORE THAN 365 DAYS, THIS CHECK IS BONE SO THE PLOTS OF SUCCESSIVE CALENDAR YEARS CAN BE MADE FROM DIE FILE OP TAPE, NEGLECTING THIS RESTRICTION AND ATTEMPTING TO PLOT SUCCESSIVE CALENDAR YEARS ON THE SAME GRID HILL GIVE AN ERRONEOUS PLOT. I.E.G. EVERY JANJARY 1 OF ANY CALENDAR YEAR HILL BE PLOTTED AT THE BEGINNING OF THE GRID.

### 

1.FOR PLOT LABELLING ONLY-

KYR TEAM BEING PLOTTED ANDTOR PRINTED

PHIPDG =GEODETIC LATITUDE OF RELEASE POINT(DEG)

LAMPDG -LONGITUDE OF RELEASE ROINT (DEG)

HEIGHT -- ALTITUDE OF RELEASE POINT ABOVE EARTH SURFACE

#(ERU)

RESTR(2) ##INIMUM ELEVATION LOCK ANGLE FROM EACH STATION

-TO THE RELEASE POINT (DEG)

RESTR(3) - MAXIMUM SJN ELEVATION LOOK ANGLE FROM EACH

\*TRACKING STATION (DEG)

RESTR(4) -MAXIMUM MOON ELEVATION LOOK ANGLE FROM EACH

"TRACKING STATION (DEG)

RESTR(5)	-MAXIMUM TOTALISKY BACKGROUND BRIGHTNESS OF THE
	*RELEASE POINT AS SEEN FROM EACH TRACKING STATION *(RAYLEIGHS)
RESTR(6)	#COMETANT LONGITUDINAL DRIFT RATE OF THE CLOUD
	-AFTER, RELEASE: RELATIVE TO THE TRACKING STATIONS -{KM/SEC)
RESTR(7)	-MINIMUM TRACKING PERIOD REGUIRED (HRS)
RESTR(8)	-ONB-HALF OF CLOUD GROWTH RATE AFTER RELEASE
	FRELATIVE TO THE EARTH (KM/SEC)
NAME (3,12)	-NAME OF TRACKING STATEONS USED

ICASE -CASE NJMBER

# 2. USED FOR DATA PLOTTING.

NS	THE NUMBER OF STATIONS USED IN THE PROGRAM
NOS(12)	-AN ARRAY CONTAINING THE STATION NUMBERS USED
EPOCH	-JULIAN DATE OF JANUARY O OF YEAR DATA BEGINS ON -File 09
PUUL	-JULIAN DATE FOR CURRENT DATA
BEGIN	"JULIAN DATE TO BEGIN PRINTING AND/OR PLOTTING
FINIS	"JULIAN DATE TO STOR BRINTING AND/OR PLOTTING
C(6)	-ARRAY OF COMBINED WINDOW START TIMES FOR CURRENT
D(6)	SARRAY OF COMBINED WINDOW STOP TIMES FOR CURRENT WDATE

### \*

DATA POINTS FOR PLOT ARE STORED OR TAPE FILE 01 AT 556 API

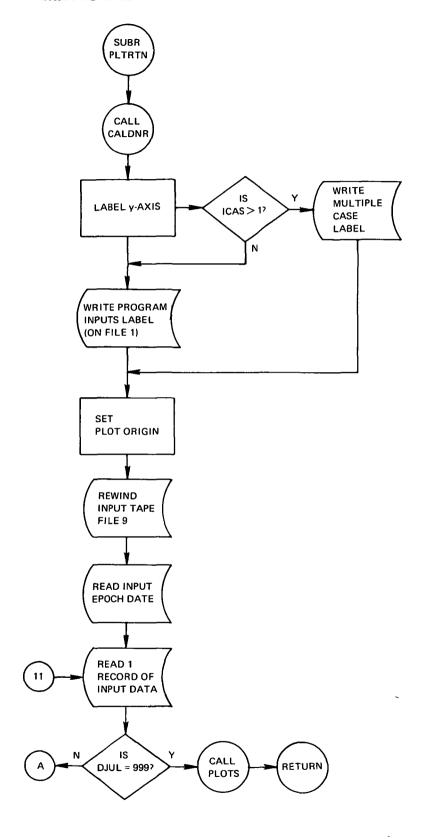
X	-POSITION	0F	PLOT	PEV (	OΝ	XCAXIS	REPRESENTING	THE
	-DATE BEIN	VG P	LOTTE	D			•	

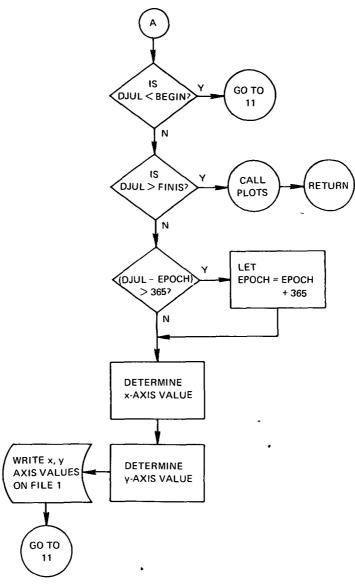
Y -POSITION OF PLOT PEN ON YEAXIS REPRESENTING THE -START TIME FOR DATE BEING PLOTTED

H -- POSITION OF PLOT PEN ON YEAXIS REPRESENTING THE -- STOP TIME FOR DATE BELVE PLOTTED

# \*\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED-

BAR (CALCOMP LIBRARY ROUTINE)
PLOT (CALCOMP LIBRARY ROUTINE)
NUMBER (CALCOMP LIBRARY ROUTINE)
SYMBOL (CALCOMP LIBRARY ROUTINE)
DATE- GMAP ASSEMBLY
CALDNR





\*\*\*\*\*\*\*\*\*NASA WALLOPS VERSION OF 01/01/69

\*\*\*\*\*\*\*\*\*LANGUAGE=FORTRAN IV

\*\*\*\*\*\* \*\* MACHINE-GE 625

\*\*\*\*\*\*\*PURPOSE-

TO PLOT A GRID ON THELVE INCH PLAIN MADER REPRESENTING AN ENTIRE 365 DAY YEAR.EACH LINE DRAWN FROM THE ABCISSA REPRESENTS A DAY OF THE YEAR. THE MONTHS OF THE YEAR ARE ALSO PLOTTED.

\*\*\*\*\*\*\*METHOD=

USING THELVE INCH PAPER, GRIDS FOR THE DAYS ARE DRAWN TO A SCALE FACTOR OF 20 LINES PER INCH USING THE LIBRARY PLOT ROUTINES.

\*\*\*\*\*\*\*\*INPUTI NONE GRID LINES ON OUTPUT TAPE FILE 01.

\*\*\*\*\*\*\*RESTRICTIONS=

THE GRID IS FORMED TO CONSTRUCT A GRID SYSTEM OF 365 DAYS IN A YEAR ONLY.

THE GRID BEGINS ON JANJARY 1 AND ENDS ON DECEMBER 31 ALWAYS.

\*\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED=

PLOTS FACTOR GRID NUMBER PLOT

SYMBOL

\*\*\*\*\*\*\*\* NASA WALLOPS VERSION OF 01/01/69

\*\*\*\*\*\*\*LANGUAGE-FORTRAN IV

\*\*\*\*\*\*\*\* 625

\*\*\*\*\*\*PURPOSE-

TO GRAPH THE COMPUTED RELEASE WINDOW TIMES FOR A GIVEN MONTH OR PORTION OF IT.

\*

THIS SUBROUTINE USES EXISTING CALEDMR LIBRARY ROUTINES TO PLOT THE RELEASE TIMES CALCULATED THROUGH THIS PROGRAM ONTO A GRID AS SET UP IN SUBROUTINE MOCALD. THE INPUT POSITION OF THE TARGET RELEASE POINT, THE TRACKING STATIONS USED AND THE VALUE OF EACH CONSTRAINT IS GIVEN IN THE PLOT LABELLING. RELEASE TIMES PLOTTED ARE THOSE DAILY TIMES RECORDED ON FILE DO BY THIS PRUGRAM.

## \*\*\*\*\*\*\*INPUT~

1.FOR PLOT LABELLING ONLY=

KMQ #MONTH BEING PLOTTED AND/OR PRINTED

KYR -YEAR BEING PLOTTED AND/OR PRINTED

PHIPDG -GEODETIC LATITUDE OF RELEASE POINT(DE3)

LAMPDG -LONGITUDE OF RELEASE ROINT (DEB)

HEIGHT -ALTITUDE OF RELEASE POINT ABOVE EARTH SURFACE

-{EqU}

RESTR(2) -MINIMUM ELEVATION LOOK ANGLE FROM EACH STATION

-TO THE RELEASE POINT (DES)

RESTR(3) = MAXIMUM SUN ELEVATION LOOK ANGLE FROM EACH

"TRACKING STATION (DEG)

RESTR(4) -MAXIMUM MOON ELEVATION LOOK ANGLE FROM EACH

-TRACKING STATION (BEG)

RESTR(5) = MAXIMUM TOTALISKY BACKGROUND BRIGHTNESS OF THE

\*RELEASE POINT AS SEEN FROM EACH TRACKING STATION

- (RAYLEIGHS)

RESTR(6)	-CONSTANT LONGITUDINAL DRIFT RATE OF THE CL	OUD
	AFRES ACIENOF SELACIVE OR THE BOARDING STA	- 1 - N -

-AFTER RELEASE RELATIVE TO THE TRACKING STATIONS

-(KY/SEC)

RESTR(7) -MINIMUM TRACKING PERIOD REGULATED (HRS)

RESTR(8) \*\* SOME SHALF OF CLOUD GROWTH RATE AFTER RELEASE

-RELATIVE TO THE EARTH (KM/SEC)

NAME(3.12) =NAME OF TRACKING STATIONS USED

ICASE -CASE NJMBER

## 2.USED FOR DATA PLOTTING.

VS -THE NUMBER OF STATIONS USED IN THE PROGRAM

NOS(12) MAN ARRAY CONTAINING THE STATION NUMBERS USED

EPOCH #JULIAN DATE OF JANUARE O OF YEAR DATA BEGINS ON

\*FILE 09

DJUL #JULIAN DATE FOR CURRENT DATA

BEGIN -JULIAN DATE TO BEGIN RRINTING AND/OR PLOTTING

FINIS -JULIAN DATE TO STOR BRINTING AND/OR PLOTTING

C(6) -ARRAY OF COMBINED WINDOW START TIMES FOR CURRENT

-DATE

D(6) -ARRAY OF COMBINED WINDOW STOP TIMES FOR CURRENT

-BATE

## 

DATA POINTS FOR PLOT ARE STORED ON TAPE FILE 01 AT 556 BPI

X -POSITION OF PLOT PEN ON X-AXIS REPRESENTING THE

-DATE BEING PEDITED

Y -POSITION OF PLOT PEN ON YEAXIS REPRESENTING THE

-START TIME FOR DATE BEING PLOTTED

H -POSITION OF PLOT PEN DY YEAXIS REPRESENTING THE

-STOP TIME FOR DATE BEING PLOTTED

#### \*\*\*\*\*\*\*RESTRICTIONS=

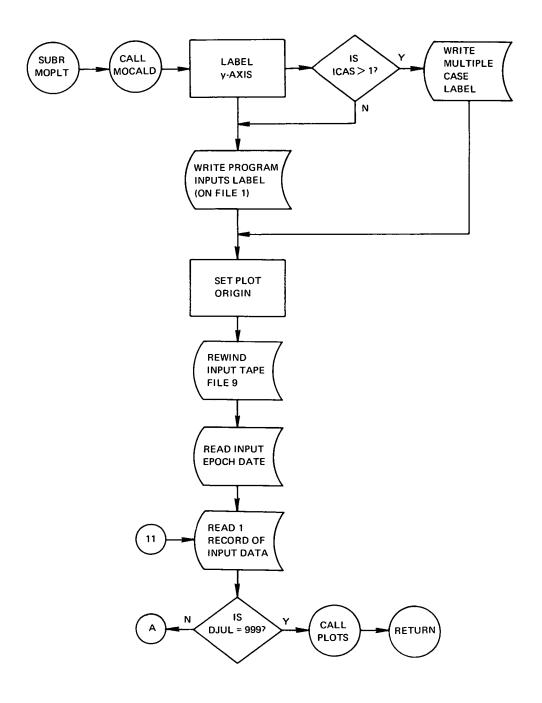
THIS SUBROUTINE WILL PLOT DATA ONLY FOR A SIVEN CALENDER MONTH OR PORTION OF IT, PLOTTING OF THO OR MORE CALENDAR MONTHS REQUIRES THAT THE PROGRAM BE REINITIATED FOR PLOTTING EACH CALENDAR MONTH, THIS RESTRICTION IS DUE TO THE GRID PLOT GENERATED THROUGH SUBROUTINE MOCALD, A CHECK IS MADE TO INSURE THE NUMBER OF DAYS PAST THE FIRST OF THE GIVEN CALENDAR MONTH IS WITHIN BOUNDS.

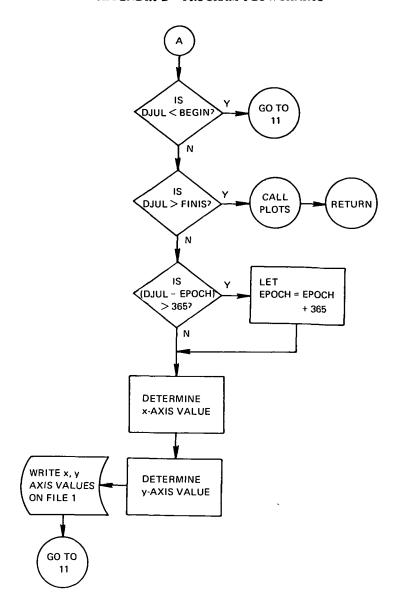
THIS CHECK IS BOYE SO THE PLOTS OF SUCCESSIVE CALENDAR MONTHS CAN BE MADE FROM OVE FILE OF TAPE. NEGLECTING THIS RESTRICTION AND ATTEMPTING TO PLOT SUCCESSIVE CALENDAR MONTHS ON THE SAME GRID MILL GIVE AN ERRONEOUS PLOT. THIS PROGRAM HANDLES UP TO 12 STATIONS TO GET COMBINED WINDOWS

## \*\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED=

BAR (CALCOMP LIBRARY ROUTINE)

PLOT (CALCOMP LIBRARY ROUTINE)
NUMBER (CALCOMP LIBRARY ROUTINE)
SYMBOL (CALCOMP LIBRARY ROUTINE)
DATE- GMAP ASSENBLY
MOCALD





 \*\*\*\*\*\*\*\* INPUT-

NONE

\*\*\*\*\*\*\*QUTPUT#

GRID LINES ON OUTPUT TAPE FILE O1.

\*\*\*\*\*\*\*\*RESTRICTIONS--

THE GRID IS FORMED TO CONSTRUCT A GRID SYSTEM OF THE DAYS OF 'KMO! ONLY.

\*\*\*\*\*\*\*SUBPROGRAMS REQUIRED=

PLOTS FACTOR GRID NUMBER PLOT

SYMBOL

#### PROGRAM IDENTIFICATION

PROGRAM TITLE - NXCARD
PROGRAM NO. - 1.1:1304
PROGRAMMED BY - THOMAS HARMON

COMPUTER REQUIRED - GE 625/635
MEMORY REQUIRED - 76 WORDS
PERIPHERALS - CARD READER
PROGRAM LANGUAGE - SMAP

### PURPOSE

NXCARD ALLOWS THE USER TO EXAMINE THE NEXT LOGICAL RECORD RESIDING ON FILE 05. THIS NEXT RECORD WILL NOT ACTUALLY BE USED AS AN INPUT RECORD UNTIL IT IS REFERENCED BY A NORMAL FORTRAN READ STATEMENT.

#### METHOD

THE NEXT LOGICAL RECORD IS EXAMINED USING THE SYSTEM SUBROUTINE FROD, AFTER THE NEXT LOGICAL RECORD HAS BEEN OUTPUT TO THE CALLING PROGRAM, THE CURRENT RECORD INDEX IS RESET TO ITS PREVIOUS VALUE AND A MORMAL RETURN IS EXECUTED.

# RESTRICTIONS

- 1. THE FORMAT USED TO CONVERT THE MEXT CARD MUST HAVE ONLY A TYPE FIELDS AND MUST READ ONLY QUE LOGICAL RECORD.
- 2. USE ONLY SINGLE OR VON+SJBSCRIPTED OUTPUT ARRAY NAMES AS ARGUMENTS TO THIS SJBROUTINE.
- 3. ENTER THE INTEGER 1 IN THE FIELD WHICH SPECIFIES THE ARRAY SIZE WHENEVER THE DUTPUT ARRAY NAME IS AN UNDIMENSIONED VARIABLE.
- 4. THE INPUT FILE MUST HAVE BEEN PREVIOUSLY OPENED BY A NORMAL FORTRAN READ BEFORE THIS SUBROUTINE IS CALLED FOR THE FIRST TIME.

#### INPUT/OUTPUT

CALLING SEQUENCE ... CALL NXCARD(FORMAT, A, I, B, J, ...) WHERE

FORMAT = THE VAME OF THE ARRAY CONTAINING THE BCD FORMAT USED IN DECODING THE NEXT LOGICAL RECORD.

A = THE NAME OF THE FIRST OUTPUT ARRAY AND

1 = THE LENGTH OF ARRAY A.

B = THE NAME OF THE SECOND SUTPUT ARRAY AND

J = THE LENGTH OF ARRAY B.

ETC.

# SYSTEM SUBROUTINES REQUIRED

.FRDD.

FSLI.

FRYN.

NO USER SUBROUTINES ARE REQUIRED

## 

### PROGRAM IDENTIFICATION

PROGRAM TITLE - DATE

PROGRAMMED BY - DENNIS MELVIN

COMPUTER REQUIRED - GE 625

PROGRAM LANGUAGE - GMAP

#### PURPOSE

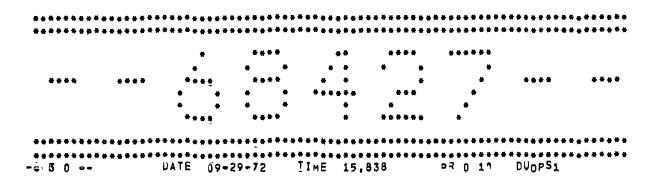
DATE RECORDS THE CURRENT DATE AS STORED WITHIN THE COMPUTER STSTEM.

## METHOD

THIS ROUTINE FETCHES THE DATE BY USING THE MASTER MODE ENTRY INSTRUCTION - GETIME - . THE DATE IS THEN PROPERLY FORMATTED FOR THE PLOT ROUTINES FOR PROGRAM 1,1,1615, BICWINDOW,

#### INPUT/OUTPUT

CALLING SEQUENCE,..CALL DATE(TODAY) HHERE
TODAY = THE PROPERLY FORMATTED SURRENT DATE, TODAY IS OF
DIMENSION 2.



# Appendix C

# Computer Printout

This appendix contains the entire source deck listing of the computer program. The program has been written in FORTRAN IV for the GE-625 computer with the exception of subroutines NXCARD and DATE, which have been written in the GE600 assembly language. Either of these two routines can be omitted after minor modifications to subroutines INPUT, PLTRTN, and MOPLT.

Microfiche supplement for NASA SP-3075, A Computer Program to Determine the Possible Daily Release Window for Sky Target Experiments, by Norman H. Michaud, Wallops Station, Wallops Island, Va.

REPRODUCIBILITY OF THE ORIGINAL COPY'S POOR

```
SHUMB = 89986, ACTIVITY & 6 DE: REPORY CODE = FE, RECERD COUNT = 04236
                                  BARTUM WINDOW MAIN PROGRAM
67986 01 09-25-72 111577
                                     emanusususus, @?1819 BICW:BDOW MAIM PRCG?AMemasasassus
                           BERTUM WINDOW MAIN PROSSEN
            Cususanusanusanasanusanusang 171815 BIGWIRDON MAIN PROGRAMANASANASANASANASANASANASTRIOSO2
    2
                                                                                         STRT6863
            OSTRTORO4
    3
            CHARAGARARIUM RECEASE WINDOW - REGGRAN NUMBER 19171665
    6
                                                                                         STRTEBOO
                                                                                         STRIGGO7
            Chapsensen WALLOPS VERSION OF BEYOLATO
                                                                                         STRTOGOS
                                                                                         STRYSEGS
   10
            Coosses ANGUAGE TORTRAN IV
                                                                                         STRYBULD
   11
                                                                                         STRT0811
   13
            COORDONG MENTINE-GE 625
                                                                                         STRT0812
   13
                                                                                         STRT6813
   14
            CHARGE SUPPREGRAM AUTHORS.
                                                                                         STRT0814
                       SURTIS; C. MARSHALL
EVERYEN; EDGAR
   19
                                                                                         STRYBEAS
   16
                                                                                         STRY0816
                       WARRON, YHOMAS
   17
                                                                                         STRT0817
                       WANCOCK, DAVID
   98
                                                                                         STRT0818
   19
            C
                       MELVIN, DENNIS
                                                                                         STRT8819
                        MICHADD, NORHAN
   20
            C
                                                                                         STRT0020
   51
                                                                                         STR70021
   22
            Cassareashn6b03E
                                                                                         STRT0822
                     THIS IS THE MAIN PROGRAM WHICH COMPUTES THE RELEASE WINDOWS FORSTRICES
   23
   24
                     THE NASKINPI BARRUM TON ELGUD PREJECT.
                                                                                         STRTAM24
   25
            C
   26
            CB466666METHODO
                                                                                         STRT0826
                     THIS PROGRAM PROVIDES AUTOMATIC SOMPUTATION OF THE RELEASE WINDOWS SATISFYING THE REQUIREMENTS FOR THE RELEASE CRITERIA,
   27
                                                                                         STRYBES7
   28
                                                                                         STRT0828
   29
                     THIS PROGRAM IS DEVELOPED IN MEDULAR FORM WITH THE FOLLOWING
                                                                                         STRT0829
            C
                     MAIN PUNCTIONS ..
   35
                                                                                         STRT0030
   31
                                                                                         STRY0031
   32
                        A. DEFINE PROGRAM TAPUTS.
                                                                                         STRT0832
   33
                                                                                         STRYOUSS
            C
   34
                       B. DEFINE RE-OCCURING PROGREM CONSTANTS
                                                                                         STRT0834
   35
                                                                                         STRTOBSS
                        STORFINE TIME INTERVALS FOR BUSCH THE GIVEN TRACKING STATIONSSTRIGES
   30
   37
                        ELOUD RELEASE ROTES AND GLOUD ROSITION DURING THE TRACKING
                                                                                         STRT8837
                       PERICO ARE SATISFACTORS FOR THE INCUT VALUES OF THE FELCOWINGSTRICESS
   38
   39
                        CONSTRAINTS ...
                                                                                         STRTOWS
   40
            C
                                                                                         STRT0840
   41
            C
                          TOTME BARTUM CLOUD IS NOT BITHIN THE SMADON OF THE BARTH ATSTRYD841
                          RELEASE TIME OR DURING THE EXPERTMENTAL PERIOD;
            C
   42
                                                                                         STRT0842
            C
   43
                                                                                         STRT6643
   44
            C
                          25 THE RELATIVE ELEVATION LOOK ANGLE RESM EACH TRACKING
   45
                          STATION TO THE ELOUD WILL BE GREATER THAN THAT SPECIFIED INSTRICTED
                          INPUTIAT TIME OF RELEASE AND DURING THE EXPERIMENTAL REGIODSTRT0846
   46
                                                                                         STRT0947
   48
                          34THE RELATIVE ELEVATION ANGLE OF THE SUN FROM EACH
                                                                                         STRT8848
   49
                          TRACKING STATION IS BELOW THEY OF THE GIVEN CONSTRAINT.
                                                                                         STRTABAS
   50
            C
                                                                                         STRTOGSO
   51
                          THE RELATIVE ELEVATION ANGLE OF THE MOON FROM EACH TRACKING STATION IS BELOW THAT OF THE GIVEN CONSTRAINT.
                                                                                         STRT4851
   52
                                                                                         STRT0852
   53
                                                                                         STRTERSS
   94
                          STRE SKY BASKSROUND BRIGHTNESS OF THE CLOUD DUE TO
                                                                                         STRTORSA
                          ATROUGHOZODIACAC LIGHY, AND SYANLIGHT AS SEEN FROM EACH
   99
                                                                                         STRTEESS
                          TRACKING STATION WILL BE ESSO THAN THE INPUT REQUIREMENT,
   56
            C
   97
                                                                                         STRT8857
   58
                        DIPROTIDE THESE ABOVE SYNTED YOME INTERVALS IN OUTPUT FORMATISTRICADS
   59
                                                                                         STRTESSS
                        B. PROVIBE THE GAPABILITY FOR MULTIRLE GESE RUNS WITH VARYING STRT8860
   60
                        RELEASE POINTS AND DRIFT RAISES
   61
            C
                                                                                         STRT6061
   62
                                                                                         STRTESSZ
            C
   63
                        P. COMBINE THESE ASSVE STATES TIME INTERVALS ON A DAILY BASIS STRTOS63
                        AS TO DEFINE A DATLY TIME PERIOD FOR WOTCH ALL CONSTRAINTS
                                                                                         STRT8864
   64
            C
                        HILL BE MET FOR ALE TRECKING STATIONS STRULTAREOUSLY,
   65
                                                                                         STRTOSES
                                                                                         STRTORAGE
   66
            C
                       G. CREATE A PLOT OF THESE CONSTRED BAILY RELEASE WINDURS?
   67
                                                                                         STRT0867
            C
   68
                                                                                         STRTCOAG
```

STRTOBAS

49

i C	THE PROGRAM HAS THE FOLLOWING OPVIONS	STRT087 STRT087
2 0	ATUP TO THELVE FIXED TRACKING STATIONS MAY BE INRUT.	STRT887
3 C	D'12 w MAVINA SE 15889129 PRANTIN PRANTIN LA INC	STRTOET
6 C	BIT X HOVING OR AIRCRAFT TRACKING STATION IS INRUTITUEN THE MAXIMUM NUMBER OF CIRCO STATIONS ALLOWED IS ELEVED. THE	STRT087
6 C	FOSITION OF THE MOVING STATION AT BELEASE TIME AND AT HALF	STRTONT
7 0	YOUR INEREMENTS INTO THE EXPERSMENTAL PERIOD KUST BE INPUT,	STRTOST
8 C		STRT007
8 C	GIA MAXIMUM OF THREE HEURS FOR THE EXPERIMENTAL REPIDD MAY BUUSED IN INCREMENTS OF SME HELF HOUR.	STRTOBA
i è	and the second of the second second	STRTOOR
2 C	D'NOMINAL VALUES FOR PROGRAM CALCULATION DATE PERIOD, GENERAL	STRTARA
3 C	PROGRAM OPTIONS, TRACKING SYPTIONS AND BELEASE POINT BOORDINATES, AND THE VALUES SOF THE CONSTRAINTS CAN BE PRESET.	STRTOGO
5 0	SOAMDING 188 AVERS 3 30% ING COMPLICATIONS COM SE SUFFEE	STRISS
Č	ETHE GENERAL OPTIONS FOR THE PROGRAM CONSIST OF THE	STRIBBB
7	POLLOWING	STRTOBB
8 C		STRTOSS
C	1. PERFORM THE PRESERVE CALCULATIONS.	STRT688
č .	20 CREATE A PAPE ON FILE 18 TO STORE THE SUN AND MOOR SAILY	STRTAGO
C	TIME INTERVALS FOR THE GIERN PRACKING STATIONS OR USE AN	STRTORO
C	EXTYTING TAPE READ IN ON TAPE FILE 18 IN ORDER TO SHIP	STRT009
C	THESE CALCULATIONS,	STRT009
C	SECREATE A TAPE ON FILE OF OF THE DARLY TIME INTERVALS	STRTOOP
Č	FOUND FOR EACH CONSTRAINT AND FOR EACH STATION AND/OR	STRT889
C	PRINT AN EXISTING TARE THROUGH FILE 677	STRTESS
Ü		STRT069
C	4 CREATE A TAPE ON FILE ST OF THE COMBINED DAILY RELEASE	STRTOSO
C C	WINDOWS AND/OR PRINT AN EXISTING TAPE THROUGH FILE 69?	STRTOSO
	SICREATE A TAPE FOR REGTTING FROM THE DATA ON TAPE CIDE DO	STRTOSO
C	OR NOT.	STRTOSO
		STRTOSO
C		STRTOSO
C	THE FORMAT OF THES MAIN RROGRAM IS TO?	STRTOSO
Č	READ THE INPUTS:	STRT010
C	B. PERFORM PROGRAM EALCOLATIONS TO MIELD THE PROGRAM CONSTANT	
C	STATE SUFFER SUFFER SUFFERS SON SUFFERS AND SUFFERS AND SUFFERS OF SUFFERS AND SUFFERS OF SUFFERS O	STRTOSS
C	G:CALCULATE THE PARAMETERS ROR THE CONSTRAINTS NOT DERENDENT	3TRY011
č	Sand Time!	STRTOM1 STRTOM1
C	DIFIND THE TIME INVERVALS FOR BACH CONSTRAINT AND STORE ON A	STR7011
C	DAILY BASIS;	STRT021
	B'REAGISE THE ACCURATED ADVISOR AND ALL OF A CO. O. O. O. O. O. O.	STRT811
C	RIPROVIDE THE REQUESTED RRINTED OUTPUT AND/OR PLOT TARE?	STRT031
C	FIRSPEAT A THREE FOR HULTIBLE CASE RUNS.	STRTOSE
	IN SELECTING THE OPTION MOT TO CHLOUGATE THEN B., C., AND DIARE	STRIGES
C	OMITTED FOR DETAILED EXPLANATION OF ENTIRE PROGRAM FUNCTIONS	STRT652
C	SEE THE COMMENTS AVAILABLE WITH STON SUBREUTINE.	STRYONS
č		STRT012
Casassa	BESYBUERS INPUT FILES-	STRT012
		STRT062
C	FILE 05 + CARD READER	STRTOSE
C	Fige 67 + 18 option vicaucy a 1 and 11prty a 0	37RT052
c c	CAMP AL A S. Oblifod Affauffel a T min Sthutt a fi	STRT083
č	FILE 89 # IF OPTION VICALLY # I AND TIPRT9 # 6	STRT613
C		STRTOAS
C	FILE EL à IF OPTION VIPRILLE 8 1	STRTESS
C		STRYOSS
) Caspass	BESYETERS OUTPUT FELES-	STRTOSS
) Cassass	Andieland Officel Strate	STRT013
, č	FILE 01 - IF TIPLOTY OD ZENOTE TOPE EILE OL MUST HE RECERDED A	VSTRT013
, ,	. san as . s . S. Mol. Asterius Idia use as	
e e	596 BP[]	STRT084

166		ONTAINS DATA EROM RILE OF IF SERTY = 0 ONTAINS DATA EROM FILE OF IF SERTS = 0	STRT0843 STRT0144
149	C F1LE 87 - 1	F ICELEY & D	STRT0845
148	C F16E 69 a 1	F TICALCT = 0	STRT6547
149	C		STRT0249
131	C FILE E1 . I	F IPRTITY = B	STRT0450
125	C		STRT0852
193	Cassassastablidions?	SYSYEDS PILESE	STRT0653
155		OR MORE THAN & CASE WETHIN JOE RUN.	STRTOASS
156	C Fine 12 o F	NUN BOL MINTEN SEAS E MANT SHOW RO	STRT6196 STRT6157
198	C	an unit inter a man estuck and unit	STRT0156
199		EMAYS MEGUTRED.	STRTUESS
100	C		STRT0161
165	Caeseess INPUTS		STRT0162
103	C ICALC	THRESD CASE TO SEAMAL TO SERICE A PALCULATIONS	STRT0863
164	C	-INTEGER CODE TO SEGNAL IF PROGRAM CALCULATIONS -ARE REQUESTED	STRT0264 STRT0265
165	C	-40. PERFORM PROBRAM CALCULATIONS	STRT0866
167	C	→#ETDO NOT PERFERM PROGRAM BALCUCATIONS	STRT0667
169	C IPRT7	- THYEGER CODE YS STONAL REDUEST PRINTING CICE 07	STRT8169
170	C	ORBIPRINT RICE BY DATA ORBIDO NOT PRINT FILE BY DATA	STRT0570
172	C		STRT8172
173	C IPRT9	-INTEGER CODE TO SIGNAL REGUEST PRINTING CILE 09	STRTeg73
174	C	-DATA -ag.PRINT ETUE UP DATA	STRT0175
176	C	- S.DO NOT PRINT FELE 89 DATA	STRT0176
177	C SPRTSE	-ENTERER CODE TO SEGNAL REQUEST GREATING CILE 11	STRT6977
179	C	-DAYA	STRTOSTO
180	C	0. DO NOT CREATE FILE 11 TAPE USE EXISTING INPU	TSTRT0280 STRT0381
182	C	-15. GRBATE PILE_11 TAPE	STRT9182
184	C	-of DO NOT USE FILE 11	STRT0983
185	C  CASE	-CASE NUMBER (INTERER)	STRT0284
186	C SFERAL	-INTEGER CODE TO DESIGNATE LAST INPUT CASE	STRT0286 STRT0287
188	C	ORE MORE CASES TO FOLLOW	STRTOASS
189	C	-41 NO MORE CASES	STRT0189
141	C DIAL	-JULIAN DATE FOR CURRENT DATA	STRT8191
193	C NBM10	-NUMBER OF BAYS BAST BEOCH DATE TO BATE FOR	STRT0292 STRT0193
194	C	-STARTING EACCULATIONS (INTEGER)	STRT0194
175	C NBVE	-NUMBER OF DAYS RAST EROCH DATE TO DATE FOR	STRT0195
197	C	-STORFING CALCULATIONS (INTEGER)	STR78297
198	C EPGCH	-JULIAN DATE OF JAMUARS & OF YEAR DATA BEGIES ON	STRT0198
200	C	-FILE 89	STRTEROO
595 501	C RVS	-RADIAL DISTANCE FROM SARTH CENTER TO RELEASE	STRY6201 STRY6202
203	C	-POINT (ERU)	STRYONGS
204	C -many		STRT0204
255 256	C DREFT	-THE SPACE FIXED DRIFT OF GLOUD (DEGINE)	STRT0205
207	C Regi	-ELEVATION CONSTRASNY SRADIENS)	STRT0207
588 588	C R(6)	-CLOUD DRIET MATE SMADEAMS/HRS	STRT0208
210	C		STRT0810
212	C R(7)	-HINIMUM TRACKING MERIOD AFTER RELEASE (MOURS)	STRTOR11
513	C NS	-THE NUMBER OF STATIONS USED IN THE RECORREM	STRYORIS
214	C NGS(12)	-AN ARRAY CONTAINING THE STATION NUMBERS USED	STRT6814 STRT6815

216 C	RTU -CONVERSION FACTOR PRON RAUTANS TO HOURS	ST#10216 ST#10217
518 C		87970216
550 C	WTR -CONVERSION CACTOR PROS HOURS TO RADIANS	81870219
557 C	SUUL - HEAN LONGTTODE OF THE SUN AT 5 HRS.UT.	STRTORES
552 C	GHA -GREERHICH MEAN SIBEREAL MOUR ANGLE AT TEGO	\$5877822 1000100100
254 C	OUNIVERSAL TIME (MRS)	9121825
229 C	SWADOS -RADIOS OF SARTH SWADOW RESIGN (RADIANS)	51416229
227 C		31910220 31910227
558 C	● 中国	51970220
330 C		STRTOR29 STRTOR30
231 CB	880000U4bU40	31970231
233 C	WINDOWIE, 5, 12) - THE DATLY RELEASE WINDOW START/STOP TIMES.	57410232 STRT6233
234 C	of ST TROEK FOR STORING START/STOP TIMES,	STRTOSS4
235 C	-10375 FOR STARI TAMES -20416 FOR STOP TIMES	STRT0235 STRT0236
237 C	- 2ND INDEX FOR THE CONSTRAINT	STRT0237
538 C	□ 148ARTH SWADON □ PIELEVATYET	STRTORSE
240 C	- 272BH	STRT6239
241 C	o demign	STR78241
243 C	SET THE STY BACKGROUND BESCHTNESS     SET THESE THE STATION BUMBER	STRT0242 STRT0243
244 C		STRT8844
245 CB	PAGE ALPEADY NOTED UNDER METMODADETAILED RESTRICTIONS ON	STRT6245
247 C	VARIOUS PHASES OF THE PROBEAM DEPINITION AND HOTED IN EACH	STRT0247
248 C	SUBROOTINE,	STRT8246
29E Ce	**************************************	STRT8249 STRT8250
291 C	BLOCK DATA INPUT	STRT0291
293 C	NECARD	STRT0252 STRT0253
254 C	INPRY	STRT0254
295 C	CONVER	STRTOSS
297 C	GDYBGC	STRT 8257
528 C	TIME	STRT0258
260 C	ECVBFT	STRTESO
597 C	AIRGLO EPAIR	STRTOZ63
263 C	NEGUS	STRT0263
264 C	LINE	STRT6864
266 C	GEZŤC	STRT5265 STRT6266
267 C	RDEPH	STRTORES
269 C	EPHERMER'S TROUBS	STRT0265 STRT0269
270 C	GETOI	STRTUETO
271 C	TRASK	STRT0271 STRT0272
273 C	ZBDLIT	STRTEETS
274 C 279 C	TTE	STRT0274
276 C	OUT1	STRTORTE
277 C 278 C	CXLBAT	STRT0277
279 C	TTUNDO	STRT0278
580 C	0472	STRTOREC
587 C	TTUTPE	STRT6261 STRT6262
283 C	DAYNUM	STRTOPES
284 C	PLTRTN	STRTO284
286 C	DATE	STRT0285 STRT0286
287 C	CALDRR	STRTORET

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                                     PLOT
           C
540
           CHORDOODEND OF DOCUMENTATION CARDSHOOSOOGOOGOOOGOOOGOOOGOOOGOOOSTRIBERS
348
542
545
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                 COMMON/SEKE /KMONTHONDAY .KYSAR .LMONTS.LDAY .LYSAR .KMOE RDA. STRT0893

1 KYR. LGGF EDA. LTRY ECGLE. IPRTY. IPRT9. IPRT81.; PLDTSTRT0894

COMMON/SEKE1/ BJUL, NOPJO. NOTE. EPSCH
294
295
                  COMMON/SERS/SINCLYS GOSCLY. SINGLNS COSCLN. NVC
                                                                                                     STRT0296
STRT0297
296
297
298
                   COMMON/SEKES PR(S)
                                                                                                     STRT0298
                  COMMON/SEKS /NSS NOS(12)
COMMON/SEKS /NAME(3012)9 PH2(82)8 LAMBDA(12)8 ALT(12)8 MOVE(22)
COMMON/SEKS /NAME(3012)9 PH2(82)8 LAMBDA(12)8 ALT(12)8 MOVE(22)
COMMON/SEKS /DTN, RYDJ MYR, MALPSY, RYMO AUG DELYA(4)8 ERMS DOMA
299
300
                                                                                                     STRTEBOO
STRTEBOL
301
302
                                                                                                      STRT0302
383
                  COMMON/SEKS/ WINDOW16:5912)
                                                                                                     STRT6303
384
                                                                                                     STRT0304
                  COMMONIBLE ISMADOW
COMMONIBLE FREETSTON DYN, RYD, MYS, TELPPI
389
386
307
                                                                                                     STRTESOF
368
                   REAL LAMBOR
                                                                                                     STRTOSOB
309
                  DATA ERDFIC/999-0/
                                                                                                     STRTOJOP
                  ARCSINIX) & ATAN(X/SORTIS, 0-16X) ) PROBRAM STARTS HERE
310
                                                                                                     STRT0310
318
312
323
                   READ AND WRITE INPUTS
314
                S CALL SAPUT
                                                                                                     STRT0314
           C CHANGE FILEIS CODE TO HAVE ABILTY TO LIGE SON AND MOON DATA WITH
315
                                                                                                     STRTOSES
316
           C STACKED CASES?
                                                                                                     STR70316
               IF(IGASE'NE:1) GO TO 2
IF(IFINAL:EQ:0) IPRT1602
2 IF(IGASE:EQ:2) IPRT1108
CALL INPRT
317
318
                                                                                                     STRT0318
319
                                                                                                     STRT0319
326
                                                                                                     STRT0320
                                                                                                                  11
353
           C
355
                  IF ( ! BALE, #0,1) GO TO 25
           C CONVERT IMPUTS TO REQUIRED UNITS AND PERPORN THE UNE-TIME CALCULATIONSSTRT6323
353
324
                   CALL BORVER
                                                                                                                  15
           STRT0327

IF (18ASE 80:1) WRITE (9:1084) ERECH
C CHECK FOR EACH TRACKING STATION'S ELEVATION ANGLE TO INSURE IT BEING STRT0327
STRT0328
325
326
327
           C GREATER THAN 8(2)
328
                                                                                                     STRT0328
           CALL BE ENSE
C FOR BARTH SHADBUJFIND THE TIME CORRECTION FOR CLOUD DRIFT DURING
329
                                                                                                      STRT0329
                                                                                                                  21
330
331
             TRACKING PERIOD
                                                                                                     STRIOS31
338
                  DRIFT E (Rtd) + 1 (Dourt) o RIUGR(F)
                                                                                                     STRT0332
                                                                                                                  22
333
                                                                                                     STRT0333
334
           C
                   SHADEN COMPOTATIONS
                                                                                                     STRT0334
335
           C
                                                                                                     STRT6335
336
                  THETA IS THE ANGLE BETWEEN THE EARTH-SUN LINE AND
                   THE TARGENCY POINT OF THE RENUMPRA CONS
337
338
                  THE MAXIBUM VALUE OF THETA IS APPROX: SP DEG 45 MIN.
339
340
           C OR PIPE MINUS THETA IS LOGGESSES RADRANS
361
                  COMPUTE THE HADIUS OF THE SHADON IN RADIANS
342
343
                   SWADON * ARCSIN( 1.87RV8) + 700438382
                                                                                                                  23
344
                                                                                                     STRT0344
349
           C COMPUTE ATROLOW BRIGHTNESS
366
                   CALL SIRGLE
367
           C COMPUTE START-STOP TIMES FOR SUM AND MOON ON DAY PRIGR TO DAY 2
348
          349
                                                                                                     STRT8549
350
391
                                                                                                                  27
352
                                                                                                     STRT025%
                                                                                                                  30
353
354
335
                                                                                                      STRT0355
                  N NOSELY
356
                                                                                                      STRT0356
357
                                                                                                      STRT0357
                                                                                                                  33
           WINDOR(ITMIN) CHINDON(SPH.N) - 2870
287 WINDON(ZIMAN) GWINDON(GFH.N) - 2870
C PP.AFORM CALCULATIONS AND GREATE COTPUT FILES ON & DAILY BASIS FOR DATESTRICS60
358
338
365
           C PERIOD REQUESTED.
361
                                                                                                     STRT8361
362
              SE DO SOU : 8 NUPJO.NDVE
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303	C CALCUSATE GREENATCH HOUR ANGLE FOR SURRENT DATE	STRTOBAS
364	BAN ALINESPAPI	STRT8864 39
369	C COMPUTE MENTH THROUGH COMSTRAINT ON RELEASE ROINT	87978865
366	Care terms (1)	ST978866 40
367	C STORE BARTH GHADOW RESULTS IN COTRUT ARRAY AND BREGUTE PRINT	S1870367
369	CALL BUYE 744	51810368 41 51810369 42
370	C COMPUTE SON AND NOON STERT-STOP TEMES FOR CURRENT DAY	STRTOSTO
371	D0 300 M63,4	STRT8371 43
372	IF (100751960.09 00 TG 12	STRT6872 44
373	CALL SUNAN (5, H)	STRT6873 47
379	DO 966 NNEY, BS	STRT0374 48
376	IF (1887117E0,2) GO TO 83	STRT6375 49 STRT6376 50
377	WRITE (117002) DJUL! (NINDOHCL, No. N.) (Leg. 4)	STRT0377 93
378	C SUBTRACT OFF TRACKING PERIOD FROM SUR AND MOON STOP TIMES ONLY	FOR STRTESTE
379	C THE GROUND STRTIONS.	STRT0379
380	13 1F (MBVE(N); NE.0) 60 70 500	STRT0380 59
382	WINDON(ZIMAN) = WINDOWER W. W. + RE7) WINDON(GIMAN) = WINDOW(GIMAN) = PE7)	STRT0381 62 STRT0382 63
383	SUB CONTINUE	STRT0303 64
384	40 70 300	STRT6384 66
389	C READ SUN AND MEON STARTFSTON TIMES FROM TAPE FILE 11	STRT0305
386	12 DO 686 NNeg; 85	STRT0360 67
387	N aNDS(NA)	S7970887 68
389	READ 11111000 PTE: (HINDOWEL-M/N), US1.61	STRT0388 69
398	C SUBTRACT OFF TRACKING PERSOD FROM SUR AND MOON STOP TIMES ONLY	FOR STRT0309 STRT0390
391	IF (MBVE(N); NE.0) GQ TO 600	STRT6391 75
392	WENDON(ZZMIN) B WINDOW(R,M,N) - R475	STRT6392 78
393	WINDORTAINING WINDOWTAIN.BY - 827)	STRT6893 79
394	688 CONTIBUE	STRY6394 80
395	C WEITE BREST RESTAGE IF BATE ON TARE STLE 11 DOES NOT MATCH FOR	
397	C DATA SEING CALCOLATED.  19 (DUUL-EG: DTE) 80 TO 800	STRT8396 STRT8397 82
398	HRITE (413003)	STRT6398 85
399	STOP	STRT6399 87
408	C STORE SUMPROON RESULTS IN OUTPUT LOCATIONS AND EMEGUTE PRINT OF	STRUT STRT0400
40%	380 CALL BUTS EMS	3TRT0401 88
483	C CALCULATE TIME INTERVALS FOR TOTAL SET BACKBROUND BRIGHTNESS	31976602
404	CALL BLITE	STRT6403 STRT6404 90
409	C STORE RESULTS IN OUTPUT LOCATIONS AND EXECUTE OUTPUT PRINTING	STRTO405
406	CALL BUTS(5)	STRT0406 91
407	C CALCULATE CONSTNED RELEASE POINT FOR SURRENT DAY	STRTOGOT
408	CALL YTURDS (1)	STRT0408 92
410	C UPDATE JULIAN DATE AND MEAN LONGITUDE OF SUN FOR NEXT DAY	STRT6469 STRT6410 93
411	SUNC #AHOD((SUNC # 07985642) 3687)	STRT8410 93 STRT8411 94
412	C TRANSFORM SECOND SUN AND GOOM INTERVALS TO FIRST INTERVALE FOR	NEXT STRT6412
413	C TRANSFORM SECOND SUM AND ABON INTERVALS TO FIRST INTERVALS FOR C DAY, ADD BACK IN THE TRACKING TIME OF THE STOP TIMES FOR FIXED	
454	C STATIONS ONLY?	STRT0414
419	DO 400 He3.4	STRT0615 57
417	D9 400 L\$2N8	STRT0416 96
118	N *NOSELS WINDSHILMON = WINDGW(SPM.N) = 2476	STRT0417 97 STRT0418 96
419	16 EUSAR(4)*ER48) RD AD 74	STRT0419 99
428	WENDOR(ZZMONY · UENDONEA)MON) · ZH. @	STRT0420 802
421	90 70 400	\$TRT9421 803
455	14 WINDORGENON " WINDOWFATHING + BETS - 84,0	STRT0422 804
423	ABR PANETHUS	
	480 CONVINUE	STRT0023 805
	188 CONVIBUE	STR78424 808
425 426	188 CONTIGUE C COMPLETED CORPOTATION OF PRESENT GASE?	STRT8624 808 STRT8625
425 426 487	188 CONTIGUE C COMPLETED CORPOTATION OF PRESENT GASE? REHIND 51 UNITE (FILDOS) ENDESC	STRT0424 &08 STRT0425 STRT0424 &10
425 426 427 428	188 CONTIGUE C COMPLETED CORPOTATION OF PRESENT GASE? REHIND S1 UNITE (FILDOD) ENDESC C COMPUTE HEXT CASE, IF ANY	STRT0424 808 STRT0425 STRT0426 810 STRT0427 811 STRT0428
425 426 427 428 429	188 CONTIGUE C COMPLETED CORPOTATION OF PRESENT GASET REHIND S1 UNITE (FIROD) ENDESC C COMPUTE HEXT CASE IF ANY BI IF (IFINALTES 8) GO TO E	STRT0424 808 STRT0425 STRT0426 810 STRT0427 311 STRT0428 STRT0429 814
425 426 487 488 489	188 CONTIGUE C COMPLETED CORPOTATION OF PRESENT GASET REHIND S1 UNITE (FIROD) ENDESC C COMPUTE MEXT CASE IF ANY B1 IF (IFINELTES S) GO TO E IF (ISALETED TO METTE (FILOS) ENDESC	STRT0424 808 STRT0425 810 STRT0427 311 STRT0428 STRT0428 STRT0429 814 STRT0430 817
425 426 427 428 429 430 431	188 CONTIGUE C COMPLETED COMPOTATION OF PRESENT GASET MEHIND SE UNITE (FILTOR) ENDESC C COMPUTE HEXT CASE IF ANY BI IF (IFINALTES IF ANY IF (ISALETES IF REQUESTING XMERR PRINTING)	STRT0424 808 STRT0425 810 STRT0427 811 STRT0428 STRT0428 STRT0428 814 STRT0430 817 STRT0431
425 426 487 488 489	188 CONTIGUE C COMPLETED CORPOTATION OF PRESENT GASET REHIND S1 UNITE (FIROD) ENDESC C COMPUTE MEXT CASE IF ANY B1 IF (IFINELTES S) GO TO E IF (ISALETED TO METTE (FILOS) ENDESC	STRT0424 808 STRT0425 810 STRT0427 311 STRT0428 STRT0428 STRT0429 814 STRT0430 817

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SAOD ORAS
       439
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STRT0437 630
       435
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                                        £584 FORMAT (P18:2)
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       443
                 28843 WERDS OF MEMORY OSED BY THIS COMPILATION
67446 01 09-83-72 11,383
                                                                                                                      DANTUR WINDOW WATER PROGRAM
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                   伊爾巴P 在客包
             PROGRAM BROAK 1023
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  PRIMARY SYNDER GNIRY
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  SECONDARY SYNDEP ENTRY
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42 TTEHDO

1923 13 THE NEXT AVAILABLE UDCATION,
1923 13 THE NEXT AVAILABLE UDCATION,
6MAP VERSON/ASSEMBLY DETES JMPA 090178/052811 JMBS 056171/692971 JMPC 050171/098971
THERE WERE NO WARNING FLASS IN THE REDVE ASSEMBLY
SO 19749 HORDS OF HEMORY WERE USED BY GHAP FOR THAS ASSEMBLY?
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# 67006 SE 69-89-72 SE,998 NOMINAL THRUPS END PROGRAM CONSTANTS

CDATA NOSIWAL	INPUTS AND PROSSAM EDNSTANTS
C5-00-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	ротовроск рата апвывовачаю осторого состорого составляющий выставляющий выставляющий выставляющий выставляющий выставляющий выполняющий выполнающий выполна
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Cheseecesiveniae in E-de	629
CaeseeeshAubdaee	
C TO DEFINE N	OMINAL INDUT PARAMETERS AND TO DEFINE SCHVESSION USE IN THE BITTINEOU PROGRAM.
C C8+68+#89ME9MOD+	
C BEFINE CONS	TARTS AND NOMERAL MARGMETERS THROUGH DATA STATEMEN
C	
C00000001NPUT	
C NORE	
C	
Cooccosogypyy-	
C KMBNTH	-HONTH NUMBER FER STARTING BALCULATIONS
C KDAY	
C	-DAY NUMBER FOR STARTING CALCULATIONS
C KYEAR	-YEAR NUMBER FOR STARTING BALCULATIONS
С цивити	-MONTH NUMBER FOR STOPRING BALCULATIONS
C LBAY	-DAY NUMBER FOR STOPRING SALCULATIONS
5	
C LYBAR	-YEAR NUMBER FER STOPRING EALCULATIONS
C KMB	-MONTH PLOTTING AND/OR PRINTING TO BEGIN
C KDS	-DAY PLOTTING AVD/OR PRINTING TO MEGIN
C KYR	WEER PLOTTING AND/OR PRINTING TO MEGIN
C FMB	
C	-MONTH PLOTTING AND/OR PRINTING TO GND
C LPA	-DAY PLOTTING AND/OR PRINTING TO END
C LYR	SYSAN PLOITING AND/OR PRINTING TO SHO
C 1CALC	STRTESER CODE TO SECHAL IF PROGRAM CALCULATIONS
	-ARE REQUESTED
	#69; PERFORM PROGRAM GALCULATIONS #85;DO NOT PERFIZEM PROGRAM GALCULATIONS
C IPRT9	STATEGER CODE TO STONAL REQUEST PRINTING CILE OF
6	"BO PRINT FILE OF DATA
-	-1100 NOT PRINT FILE BY DATA
C 1PRT9	-INTEGER CODE TO STORAL REQUEST PRINTING CIDE OF
· ·	-BEPRENT KILE SP DAYA
	-81,00 NOT PRINT FELE 89 DATA
0 1PRT11	- INTERER CODE TO SEGNAL REQUEST CREATING EIDE 1:
0	-DAYS

rg C		-48.De MOL A86 AIPS 21	DATASETS DATASETS
, c	19607	STATEGER CODE TO SEGNAL REDURST PLOTTING DATA	DATAGG72
3 C		oos, spears a year por plotting bata for a	DATABETS
6 C		- CALENDAR YERA THROUGH FILE 61 AT 550 8P9	DATASS74
5 5		COS. SHEATS A THRE FOR PLOTTING DATA FOR 8	DATAGE79
, c		. CALENDAR HOSTH THROUGH PILE OL AT 596 BP!	DATAGG76
e e		DO NOT ERESTE A PLOT TAPE	DATAGET?
C			DATA6876
е	911900	- GRADEVIC CATITUDE OF BELEASE POINT (BEG)	DATABOTS
			DATASSS
t c	Pando	ordinglands or deficies boing (DSe)	DATAGES
2 C			DATAGES
3 C	MESCHY	SALTITUDE OF RELEASE POINT ABOVE SARTH SUSFACE	DATAGGE
4 0		•(ERU)	DATABBS
9 C			DATABES
6 C	RESTR(2)	-MENIMUM ELEGATION LOOK ANGLE FROM EACH STATION	DATASSS
7		-TO THE RECEASE POSAT (DEG)	DATAGEST
8 C			DATABES
G C	NESTRES;	CHANTHON SON ELEVATION LOOK ANGLE FROM EECH	DATASSS
0 0		-TRACKING STATISH SDEG;	DATASSS
1 6			DATAGE91
S C	RESTR(4)	WAXINGM MEON GEEVA-10H LOOK ANGLE FROM ERCH	DATABBOX
3 C		-TRACRING STATISH LOGG;	DATAGES
4 C			DATABOS
9 C	RESTR(5)	MAXIMON TOTAL SKY BACKGROUND BEIGHTHESS OF THE	BATARROS
6 C		-RELEASE POINT AS SEEN FROM BACH TRACKING STATION	DATABES
7 C		- (RAYLETSHE)	DATAGES!
8 C			DATAGRE
9 C	RESTRES;	-CONSTANT CONGITODINAL DRIPT RATE OF THE ELOUD	DATABBOS
6 C		SETER RELEASE BELATIVE TO THE EARTH (KM/8E6)	DATAGEG
\$ C			DATAGSOS
S C	RESTRET;	oMENIMUM PRAEKERS 用ERIOD RESUIRED (MRS)	DATABRES
3 6			DATABSO
4 C	RESTR(8)	-ORFAHALF OF CLOOD GROWTH BATE AFTER RELEASE	DATAGSO
5 C		-RELATIVE TO THE EARTH (KM/SEC)	DATAGES
6 0			DATABASE
7 C	N5	OTHE NUMBER OF STATIONS USED IN THE PROGRAM	DATAGES
8 C			DATAGS
9 C	(12)88N	-AR ARRAY CONTAINING THE STATION NUMBERS USED	DATAGSOS
e c			DATABSIC
1 0	NAME (3, 12)	"NAME OF TRACKING STATIONS USED	DATAGS11
S C			DATAGES
3 C	PH1(12)	-GHODEVIC CATITUDE OF TRACKING STATISH (DEG)	DATABES
4 C			DATABLE
5 C	LAMBDA (12)	-LONGITUDE OF TRACKING STATION (DEG)	DATA8115
6 0			DATABSIE
7 0	ALT(SE)	SALTITUDE OF TRACKING STATION ABOVE EARTH SURFACE	DATAGET
8 C		#(RY)	DATAGRI
9 C			DATABES
0 0	MOVE(12)	-CODE NUMBER TO DETERMINE SF STATION COORDINATES	DATADIZE
\$ C		MARE FOR EARTH BIXED STATION OR FOR AIRCREFT	DATABEZ
5 C		ONE FOR FIRED STATION	DATA832
3 C		-45.FOR AIRCRAFT	DATABS23
4 C			DATA012
5 C	PNAME(3.79	-ALPHARUMERIC DESCRIPTION FOR AIRCRAFT POSITION	DATAGE2
6 C		-DURING TRACKINY PERIOD	DATAGEZ
7 0			DATA642
8 C	PLATER	ogeobevic Catitude of Aircraft byring	DATAGES
9 C		"EXPERIMENTAL PRAISE (BEG)	DATAGES
0 C			DATASESO
2 C	PLON(7)	-LONGTTUDE OF ATECRAFT DURING EXPERIMENTAL RERIOR	DATAGER
2 C		o(586)	DATA 013
3 C			DATA013
4 C	PALTEYS	OASTITUDE OR AISCRAFT DURING EXPERIMENTAL PERIOR	DATAGEN
9 0		e(DEG)	DATAGES
6 C			DATA0136
7 0	978	"CONVERSION CACTOR FROM DEGREES TO RADIANS	DATAGES!
8 0			
9 0	RTD	-CONVERSION RAUTER FROM RADIANS TO DEGREES	DATA6139
8 C			DATAGE 40
ž C	HTR	-CONVERSION KACTOR FROM HOURS TO RADIANS	DATABA41

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193
                                          RTH
                                                                          -CONVERSION EASTER PROM RADIANS TO HOURS
                                                                                                                                                                                            DATA0143
 184
                                                                                                                                                                                           DATA0244
                                          AU
                                                                          -CONVERSION EASTER PROM ASTRONOMICAL UNITS TO
                                                                                                                                                                                            DATA0145
                     C
 146
                                                                          -EARTH HADES UNTIL
                                                                                                                                                                                            DATAB146
 107
                                                                                                                                                                                            DATA0147
                     C
148
                                          DELTA(3)
                                                                          -APPROXIMATE PERTOD OF SUN MOTION (MRS)
                                                                                                                                                                                            DATASSAS
 149
                                                                                                                                                                                            DATAG149
 158
                                          BELTA(4)
                                                                          -APPROXIMATE PERIOD OF MODE MOTION (MRS)
                                                                                                                                                                                            DATA0250
 191
                                                                                                                                                                                            DATASSS1
 152
                                                                          -CONVERSION EAGTOR FROM EAGTH RADII UNITS TO
                                                                                                                                                                                            DATA6192
153
                                                                                                                                                                                            DATA0353
                     C
                                                                                                                                                                                            DATA0254
 155
                                                                          -VALUE OF 90 DEGREES IN RADIANS
                                          HALFFT
                                                                                                                                                                                            DATABESS
 196
                                                                                                                                                                                            DATA0156
 157
                                          WIGDOW(8, 9, 12) - THE DAILY RELEASE WINDOW START/STOP TIMES,
                                                                                                                                                                                            DATA0157
198
                                                                          -187 INDEX FOR STORING START/STOP TIMES,
                                                                                                                                                                                            DATA0158
159
                                                                          -19379 FOR START TIMES
                                                                                                                                                                                            DATA0259
                                                                          -29476 FOR STOP TIMES
-280 TROSK FOR THE CONSTRAINT
160
                                                                                                                                                                                            DATA0260
101
                                                                                                                                                                                            DATARS61
                     C
102
                                                                                 1:EARTH SHADES
                                                                                                                                                                                            DATAGES
                     C
103
                                                                                  2 . ELEVATION
                                                                                                                                                                                            DATA6163
                     C
 164
                                                                                 3 + SUN
                                                                                                                                                                                            DATADE64
165
                                                                                 4 ± MOCN
                                                                                                                                                                                            DATA0165
                     C
                                                                                 SETOTAL SKY BECKGROUND BRIGHTNESS
 166
                                                                                                                                                                                            DATA0166
 167
                                                                          -JRD INDEX FOR THE STATION RUMBER
                                                                                                                                                                                            DATA0167
168
                                                                                                                                                                                            DATAGES
169
                                          LINE
                                                                          -LINE COUNT USED TO SKIP TO NEW PAGE AND BRING
                                                                                                                                                                                            DATAB169
170
                                                                          -WEADIN3
                                                                                                                                                                                            DATA6570
171
                                                                                                                                                                                            DATA0171
172
                     CBessesseRESTRICTIONS.
                                                                                                                                                                                            DATA6172
173
                                          NOUS KNOWN
                                                                                                                                                                                            DATA0173
174
                                                                                                                                                                                            DATA6174
175
                     Cossesses USPROGRAMS REQUIRED.
                                                                                                                                                                                            DATAGETS
176
                                                                                                                                                                                            DATA0576
177
                                                                                                                                                                                           DATA8377
                     Conscient CP DOBUMENTATION CARDSwoodsadowoodstageconscience DATA0178
178
179
                                                                                                                                                                                            DATA6179
180
                                   BLOCK DATA
                                                                                                                                                                                            DAYAGESO
181
                                   REAL CAMPDS, LAMBDA
                                                                                                                                                                                           DATA6181
                                   COMMON/BLKE /KMONTH-KDAK , KYEAR .LMONTH.LDAY ,LYEAR ,KMOE MDA, DATA6482

KYR: LHO; EDA, LTR, TCALG, IPRT7, IPRT9, IPRT21: IPLOTDATA6483

COMMON/BLKE /PHIPDG-LAMPDG, MEIGHT

COMMON/BLKE /RESTRIE)
182
183
                                 1
 184
185
                                                                                                                                                                                           DATAGESS
186
                                   COMMODISERD INS! NOS(12)
                                                                                                                                                                                           DATACES6
                                  COMMON/BLKE /NAME(3912) PHT(22) LAMSDA(12) ALT(12) MOVE(12) COMMON/BLKE4/ PNAME(397); PLAT(7) PLON(7), PALT(7), JAIR COMMON/BLKE /DTR; RTD; HTR, HALPRI, RTH, AU, DELTA(4), ERM& DG4A COMMON/BLKE/ HINDOW(6:3912) COMMON/BLKE/ LINE, IYEAR, IMONTH, SDAY
187
                                                                                                                                                                                           DATA6487
188
189
                                                                                                                                                                                           DATAGS89
 190
                                                                                                                                                                                           DATA0190
191
                                                                                                                                                                                           DATA6591
192
                                   DOUBLE FREE:BION DYR. RYD. MTA, MALPPI
DATA RHORTH, KDAY , KYBAR , LMONTHELDAY
                                                                                                                                                                                           DATA6192
                                                                                                                            .LYEAR /
193
                                                                                                                                                                                           DATAGES
194
                                                                                                           161
                                                                                                                             01971 /
                                                                            15971 .12
                                                                                                                                                                                           DATA0194
195
                                  DATA MHOT KDA, KYR, LHG9 LDAS LYRY
                                                                                                                                                                                           DATA0195
                                   DATA TOALCE IPRTY, IPRTY: IRRTIST INCOTE
196
                                                                                                                                                                                           DATA0196
197
                                                                                                                                                                                           DATA0197
198
                                                       0.
                                                                        0.
                                                                                                                                                                                           DATABESS
                                                                     ALAHNDG
                                   7:0892
199
                                                                                               . METGHTY
                                                                                                                                                                                           DATAGES
                                  DAYA RESTR /8.03 30407 -18.85 -218, 1.75, 046, 2.0, 2.4/
200
                                                                                                                                                                                           DATAGEOD
201
                                          A (NAME (1) | PHICE) , DAMBBA(I) , ALT(I) 180 E SO (1) | CHILE | PHICE) | CAMBBA(I) | CALT(I) | CHILE | CH
202
                                   DAVA (NAME (1)1)
                                                                                                                                                                                           DATAB262
203
                                                                                                                                                                                            DATABES
204
                                                                                                                                                                                            DATADR64
                                          18UAREDDIPA: PERU :018:4668299-717493826:8133.2

18UMITE SANDS: N:N: 32:4238:-106799278-5413.40

18UMITE SANDS: N:N: 32:4238:-106799278-5413.40

18UMITE SANDS: N:N: 32:4238:-106799278-5413.40

18UMITE SANDS: N:N: 32:4238:-118:87846.7939.6

18UMITE SANDS: N:N: 32:4238:-118:87848.6771.6

18UMITE SANDS: N:N: 32:4238.5

18U CV-999 AT RELEASE: 32:3478 9:6276542 ,35630.
205
                                                                                                                                                                                            DATABRAS
206
                                                                                                                                                                                            DATABESS
267
                                                                                                                                                                                            DATASES7
288
                                                                                                                                                                                            DATABROS
289
                                                                                                                                                                                           DATAGEOS
210
                                                                                                                                                                                           DATA6210
                                   DATA INDVESTY, 191.8) / 880/
DATA SHINDSW(I) 1179 (194) / 670.8709().0.24.5/
DATA BS: (NOS(I) 188.7) / 7.2.2.378.8.6.8/
211
                                                                                                                                                                                            DATABELL
212
                                                                                                                                                                                            DATASE12
213
                                                                                                                                                                                            DATAGE13
214
                                   DATA AU/8,8258576-42
                                                                                                                                                                                           DATAGE14
                                   DAYA WALPPI/1197079832899489681988 61/
215
                                                                                                                                                                                           DATABRIS
216
                                   DAYA DPR7. 1745329251994529546601#
                                                                                                                                                                                           DATABRIS
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217		
218	DATA RYM/8761971961948632090 024	DATAGE1
524	DATA #107.3729377993308832090 024 DATA UTR/.365799388 06/	DATAGES
220	DATA DELTA /8,00 0.0. 24.0. 24.75;	DATA022
555	DAYA DGWE/E,00273791/	DATABES
223	DATA STNE/35/ END	DATAGE2 DATAGE2
		0414982
20185	WARDS OF MEHORY OSED BY THIS COMPILATION	
906 08 0	19-23-72 11,596 NOMINAL INPUTS AND PROGRAM CONSTANTS	
	essestates BLQCK BATA SUSPROGRAMA	
888	EFAGE	
PROSE	NH BREAK	
COMMON	NT BITS \$	
PRIMARY		
P-16-12-10	OVADA BITTA	
CONDERV	SYMDEF ENTRY	
87.081	C LENGTY	
S BPMB		
3 BLME	10	
S BLAS	19	
6 BLKS		
7 BLAF		
	20	
TO BENE		
10 BLNG	556 4	
10 BEND 11 BEND SYNRE	556 4	
SYMRE O 18 1 AP VERBICHERE WERE	556 4 EF THE NEXT AVAILABLE LOCATION. ON/ASSEMBLY BATES JMPA 050174/052571 JMPC	050171/058
19253 I	556 4 EF THE NEXT AVAILABLE COCATION. ON/ASSEMBLY BATES JMPA 050174/052571 JMPC E NO WARNING FLAGS IN THE ABOVE ASSEMBLY	050171/051
19293 I	SSE  4  EF  THE NEXT AVAILABLE LOCATION.  ON/ASSEMBLE BATES JMPA 050174/052571 JMPB 056171/052571 JMPC  E NO WARNING FLASS IN THE ABOVE ASSEMBLE  WORDS OF HEMORY WERE USED BY GHAP FOR THES ASSEMBLY.	
SANGE O 18 1 O 1	SPS  4  EF  THE NEXT AVAILABLE LOCATION.  ON/ASSEMBLE BATES JMPA 030174/052571 JMRB 036171/052571 JMPC  E NO WARNING FLASS IN THE ABOVE ASSEMBLE  HORDS OF HEMORY WERE USED BY GHAP FOR THAS ASSEMBLY.  OY-E5-72 11,599 READ INDUT PARAMETERS  THEMESURE-PROSEDUTING INPUT	1 NP U 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
1 8 L M B L M B L M B M B M B M B M B M B M	THE NEXT AVAILABLE LOCATION.  ON/ASSEMBLY DATES JMPA 030174/052571 JMRB 036171/052571 JMPC  E NO HARNING FLASS IN THE ABOVE ASSEMBLY  NORDS OF HEMORY HERE USED BY GHAP FOR THIS ASSEMBLY:  O9-25-72 11,599 READ INDUT PARAMETERS  THE MESSEMBLY SHOW THE INPUT PARAMETERS  C1NRU READ INPUT PARAMETERS  C3-34-3-35-3-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	INPUBS INPUBS INPUBS INPUBS
1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	EF  THE NEXT AVAILABLE LOCATION.  ON/ASSEMBLY DATES JMPA 090174/052571 JMRB 096171/052571 JMPC  E NO HARNING FLASS IN THE ABOVE ASSEMBLY  HORDS OF HEMORY WERE USED BY GHAP FOR THAY ASSEMBLY.  OP-ED-72 11.999 READ INDUT PARAMETERS  CHARU READ INPUT PARAMETERS  CHARU READ INPUT PARAMETERS  CHARUSESSESSESSESSESSESSESSESSESSESSESSESSES	INPU06 INPU06 INPU06 INPU06 INPU06 INPU06 INPU06 INPU06
1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	SPS  4  EF  THE NEXT AVAILABLE UCCATION.  ON/ASSEMBLE DATES JMPA 03017\$/052571 JMPB 056171/052571 JMPC  E NO HARNING FLASS IN THE ABOVE ASSEMBLE  HORDS OF HEMORY WERE USED BY GHAP FOR THIS ASSEMBLY.  OP-25-72 12,599 READ INDUT PARAMETERS  THE WEST TO BE TO THE TOTAL THE T	INPU08
1 BLHQ SVMRF 1 BLH	THE NEXT AVAILABLE COCATION.  ON/ASSEMBLY DATES JMPA 030174/052571 JMRB 056171/052571 JMPC  E NO HARNING FLASS IN THE ABOVE ASSEMBLY HORDS OF HEMORY WERE USED BY GMAP FOR THAS ASSEMBLY.  OP-E5-72 11,599 READ INDUT PARAMETERS  CHARU READ INPUT PARAMETERS  CHARU READ INPUT PARAMETERS  CHARUSTON OF BOCUMENTATION CARBSON HORSON OF SOME HO	INPUD66 INPUD66 INPUD66 INPUD66 INPUD66 INPUD66 INPUD66 INPUG66
1 BLHQ SVMRF 0 18 1 P VERBSO HERE WBRE 19253 1 2 3 4 5 6 7 8 9 10	EF  THE NEXT AVAILABLE LOCATION,  DN/ASSEMBLE BATES JMPA 090174/052571 JMRB 090171/052571 JMPC  E NO HARNARG FLAGS IN THE ABOVE ASSEMBLE  HORDS OF NEMORY WERE USED BY GMAP FOR THRE ASSEMBLY;   O9-E5-72 11,599 READ INDUT PARAMETERS  CANDO READ INPUT PARAMETERS  CONSTRUENCE OF BOCUMENTATION CARBSON SOCIOUS OF	INPUD66 INPUD66 INPUD66 INPUD66 INPUD66 INPUD66 INPUD66 INPUD66
1 BLHQ SVMRE 0 18 1 P VERBSO HERE WBRE 19253 1 2 3 4 5 6 7 8 9 10 11 12 12 13	FF  THE NEXT AVAILABLE LIGCATION.  ON/ASSEMBLE DATES JMPA 050174/052511 JMPB 056171/052571 JMPC  E NO HARMING FLASS IN THE ABOVE ASSEMBLE HORDS OF NEMORY WERE USED BY GMAP FOR THAS ASSEMBLY.  O9-E5-72 11,599 READ INPUT PARAMETERS  C1NRU READ INPUT PARAMETERS  C008000000000000000000000000000000000	INPUG8
10 BLMB 11 BLMD SVMRE 0 18 1 AP VERBSO HERE WARE 19253 I 19253 I 2 3 4 5 6 7 8 9 10 11 12 13 14	THE NEXT AVAILABLE COCATION.  ON/ASSEMBLE DATES JMPA 050174/053511 JMRB 050171/052571 JMPC  E NO HARMARG FLASS IN THE ABOVE ASSEMBLE  NOP-E5-72 11,599 READ INDUT PARAMETERS  THE MEAD TRPHT PARAMETERS  CONSTRUE READ TRPHT PARAMETERS  COSSESSEDENTATION CARBSSOCIONOSTRESSEDENCESSE	INPUG8
10 BLMB 11 BLMD SVMRE 0 18 1 AP VERBSO MERE WHRE 19253 I 19253 I 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 15	THE NEXT AVAILABLE COCATION.  ON/ASSEMBLY BATES JMPA 050174/053571 JMRS 056171/052571 JMPC  E NO MARNING FLASS IN THE ABOVE ASSEMBLY.  OP-ED-72 11.599 MEAD INDUT PARAMETERS  THE WHENT WERE USED BY GMAP FOR THREE INPUT ***  CINRU READ INPUT PARAMETERS  CHARLOSSESSESSESSESSESSESSESSESSESSESSESSESSE	INPUG8
10 BLMB 11 BLMD SVMRE 0 18 1 AP VERBSO HERE WHRE 19253 I 19253 I 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17	THE NEXT AVAILABLE LOCATION.  THE NEXT AVAILABLE LOCATION.  ON/ASSEMBLE DATES JUPA 090174/052571 JMRB 096171/052571 JMPC  E NO HARMAND FLASS IN THE ABOVE ASSEMBLE HORDS OF HEMORY WERE USED BY GMAP FOR THAS ASSEMBLY.  O9-E5-72 11.599 READ INDUT PARAMETERS  C1NRU READ INPUT PARAMETERS  C508400000000000000000000000000000000000	
10 BLMB 11 BLMD SVMRE 0 18 1 AP VERBSO HERE WHRE 19253 I 19253 I 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16	THE NEXT AVAILABLE LOCATION.  THE NEXT AVAILABLE LOCATION.  DN/ASSEMBLE DEFES JMPA 030178/052511 JMRB 056171/052571 JMPC  E NO MARNING FLASS IN TWE ABOVE ASSEMBLY.  D9-25-72 12,599 READ INDUT PARAMETERS  C1NRU READ INPUT PARAMETERS  C3080000000000000000000000000000000000	IN NO
10 BLMB 11 BLMD SVMRE 0 18 1 AP VERBSO MERE WHRE 19253 I 4 19253 I 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18	THE NEXT AVAILABLE LOCATION.  THE NEXT AVAILABLE LOCATION.  DN/ASSEMBLE DEFES JMPA 050178/052511 JMRB 056171/052571 JMPC  E NO MARNING FLASS IN THE ABOVE ASSEMBLY.  D9-25-72 12,599 READ INBUT PARAMETERS  C1NRU READ INPUT PARAMETERS  C1NRU READ INPUT PARAMETERS  CB080000000000000000000000000000000000	INPPOSE INP

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NESSESSARY TO DEFINE ALL INDUT RARAMETERS REQUIRED TO GENERATE PROSERM DATA EACH IMPUT PARIABLE IS DEFINED IN THE BLOCK DATA
53
                                                                                                   INPUBE23
24
                                                                                                   INPUSS24
29
                     SUSPROGRAM FOR NGHINAL VALORSTEHANGES TO ANY ONE OR HORE
                                                                                                   INPUB 25
                     NOWINAL VALUE DEFINED ON ONE MARD REQUIRES THAT ALL VARIABLES SPECIFIED FOR THAT CARD HUST WE SUCLOBED ON ISSION OF ANY VARIABLE FROM A SARD WILL BE INTERPRETED TO MAYE A VALUE OF
26
                                                                                                   INPU0826
INPU0827
27
28
                                                                                                   INPUSS28
29
                     ZERO AND NILL OVERRIDE THE NOW?NAL VALUE STORED THROUGH THE
                                                                                                   INPU8829
38
                     BLECK DATA SUSPROSRAN,
                                                                                                   INPUBB30
31
                                                                                                   INPUGG31
35
          CheeseoeeiMulid
                                                                                                   INPUSE32
                     VARIABLES ARE CARD TRAUTE SITE THE FOLLOWING SAECIFIC CARD AND COLUMN CORATIONS ALL VARIABLES SPECIFIED AS INTEGERS HUST BE
33
                                                                                                   INPU8833
34
                     RIGHTSJUSTIFIED, THOSE VARIABLES NOT SPECIFIED AS INTEGERS; HOLLERITH, OR ALPHANUMERIC ARE ELGATING POINT AND MUST BE READ
35
                                                                                                   INPUBES5
36
                                                                                                   INPUBES6
37
                     IN THE ONITS NOTED?
                                                                                                   INPUSES7
38
                                                                                                   INPUSE38
39
                       a CEND . STARFJETOR DATE
                                                                                                   INPUBES9
40
                                                          CHOLLEGITH)
                                                                                                   INPUBB40
45
          C
                            WYMEN DISTRATE W PROCES
                                                                                                   INPUBB41
42
          C
                            05-07 . STARTING DAY
                                                          CIMPEGER)
                                                                                                   INPUBB42
                            DP-12 . STARTING YEAR
43
                                                          e THPESER)
                                                                                                   INPUBE43
64
                            18-15 . FIRAL MONTH
                                                          elnesse)
                                                                                                   INPUBB44
85
                            17-18 . PINAL BAY
                                                          EIRPEGER)
                                                                                                   INPUBE45
                            26-23 . FIRAL YEAR
46
                                                          elntegen)
                                                                                                   INPU0846
67
                                                                                                   INPU8847
68
          C
                       B CARD - START/STOP DATE FOR OUTPUT
                                                                                                   INPUSE48
89
                            OX
                                                          SHOFFES LAH!
                                   8 B
                                                                                                   INPUBRA9
50
                            05-04 8 STARTING HONTH
                                                          eligrecen)
                                                                                                   INPUGS50
                            08-07 = STARTING DAY
51
          C
                                                          ETHPEGER:
                                                                                                   INPUSES1
52
                                                          CINTEGER)
                            OPESS & STARTING YEAR
                                                                                                   INPU6852
                            14-15 . FENAL MONTH
93
                                                                                                   INPUGE53
          C
54
                            17-18 " FIRAL DAY
                                                          cimteGer;
                                                                                                   INPUGS54
55
          C
                                                                                                   INPUBES5
                            20-23 0 FINAL WEAR
                                                          ATEPEGER)
56
                                                                                                   INPUGES6
                       CARD - PROGRAM OFTIONS
57
          C
                                                                                                   INPUBES7
58
          C
                            01
                                    8 C
                                                          (HOLLESITH)
                                                                                                   INPUBB58
59
          C
                            04
                                    PROGRAM BALCOLATION
                                                                                                   INPUDS59
60
          C
                                        DO CALCOLATIONS FOR DATES SHOWN
                                      Û
                                                                                                   INPUBBAD
                                          SKIP CALCOLATIONS-ONLY PRINT FILES 01, 97,09
61
          C
                                                                                                   INPUER61
62
          C
                                    PRINT FILE OF
                            08
                                                                                                   INPU0862
63
                                        PRINT FILE OF
                                                                                                   INPUBE63
64
          C
                                          DO NOT BRINT SILE OF
                                                                                                   INPUDB64
65
          C
                                    PRINT FILE 09
                            08
                                                                                                   INPUSS65
          C
66
                                          PRINT FILE OF
                                                                                                   INPUGE66
67
                                                                                                   INPUBES7
          C
68
                                    SUN AND BOON CALCULATIONS
                                                                                                   INPUBB68
69
          C
                                          USE FILE 11 BER WINDOW TIMES FOR SUN AND HOON INPUSES
78
                                          CREATE RICE SE ON SUN AND MOON TIMES
                                                                                                   INPUSS70
71
          C
                                          DO NOT DEE PILE 11
                                                                                                   INPUSS71
          C
                                    CALCOMP PLOTTER OFTION
72
                                                                                                   INPUBE72
73
          C
                                          GENERATE CALESMA PLOT DAYA ON FILE O1 FOR A
                                                                                                   INPUSE73
74
          C
                                                    TEAB
                                          CALENDAR
                                                                                                   INPUBR74
                                          SEMBRATE CALROMP PLOT DATA ON FILE OS COR A
75
                                                                                                   INPU8975
76
                                          CALENDAS MONTH
                                                                                                   INPUSE76
77
          C
                                          DO NOT GENERATE CALSOMP SUTPUT
                                                                                                   INPU6277
78
          C
                                                                                                   INPUGB78
79
                       D CARD - LOCATION OF RELEASE POINT
                                                                                                   INPUSE79
80
          C
                            20
                                                                                                   INPUOSSO
                                   * D
                                                                                   SHOLLERSTH)
81
                            DE-15 & GEODETTC LATTYURE OF RELEASE POINT
                                                                                   (DEG)
                                                                                                   INPUBERS
82
          C
                            14-25 . LONGITUDE OF RELEASE POINT
                                                                                   (DEG)
                                                                                                   INPUSES2
83
                            26-35 . ALTITUDE ABORE THE EARTH'S SURFACE
                                                                                   SERUS
                                                                                                   INPUBBA3
84
          C
                                                                                                   INPUBER4
85
                       E CARD . BRIGHTHESS AND ELEVATION CONSTRAINTS
                                                                                                   INPUBBSS
          C
86
                                                                                   SHOLLER TH)
                                                                                                   INPUSSS
87
          C
                            DE-10 . MINIMUM ELEVATION OF RELEASE POINT
                                                                                   (DEG)
                                                                                                   INPUGES7
88
                            11-15 - DERRESSION ANGLE OF THE SUN
18-20 - DERRESSION ANGLE OF THE MOST
21-27 - TOTAL SKY BACKGROUND SOIGHTNESS
          Č
                                                                                   (DEG)
                                                                                                   INPUSSE
89
                                                                                                   INPU889
90
                                                                                   GRAYLEIGHS)
91
                            28-30 . DRIFT RATE OF GEBUD
                                                                                   SKM/SEC!
                                                                                                   1NPU8891
                            SESS . TOTAL TRACKING TIME
38540 # 178 ELOUDON GROWTH RATE
92
                                                                                                   INPU6692
                                                                                   CHRS)
93
          C
                                                                                   CKM/SEC!
                                                                                                   INPU6893
94
          C
                                                                                                   INPUSS94
95
                       CARD - STATIONS TO BE COMBINED
                                                                                                   INPUSS95
96
                            OX
                                   8 F
                                                                               (HOLLERI TH)
                                                                                                   INPUSS96
```

```
97
                                                   53-04 = THE NUMBER OF STATIONS TO COMBINE
                                                                                                                                                                                    INPU8897
  98
                                                   66-07 = THE NUMBER OF THE FIRST STATION
                                                                                                                                                                                    INPUDE98
                    C
   99
                                                                                                                                                                                    INPUBERS
100
                                            & CARD & TRACKING SITE POSITIONAL BATA
                                                                                                                                                                                    INPU0200
101
                    C
                                                                                                                                                 (HOLLERITH)
                                                                                                                                                                                    INPU0101
                                                     03-04 = THE CODE NORMER OF THIS STATION (INTEGERALY, 12) INPU0102
102
                                                     05-66 #CODE FOR FIRED OR ASRCRAPT TRACKING STATION FINT, ) INPUSSOS
103
104
                                                                   CHAIR BE MOFTATEOR
                                                                                                                                                                                    INPU0104
                    C
185
                                                                   FI.STATION IN AIRPRAFT
                                                                                                                                                                                    INPUBA65
                                                                                                                                                (ALRHANUMERIC)
106
                    C
                                                     08-25 s THE NAME OF THE TRACKING SITE
                                                                                                                                                                                    INPUGAG6
                                                     28-85 & BEODETIC LATITUDE
                                                                                                                                                 (DEG)
107
                                                                                                                                                                                    INPUGAO7
108
                    C
                                                     38545 # LONGIPHDE
                                                                                                                                                 (DEG)
                                                                                                                                                                                    INPUBLOS
109
                                                     48555 8 ALTITUDE
                    C
                                                                                                                                                 (戶長級下)
                                                                                                                                                                                    INPUBS09
                                                                                                                                                                                    INPU0110
110
                    C
                                # CARD & POSITIONS OF AIRCRART DURING SKRERIMENTAL PERIOD
                                                                                                                                                                                    INPUBS11
111
                    C
112
                                                     JI
                                                                                                                                                 (HOLLERITH)
                                                                                                                                                                                    INPU0112
113
                    C
                                                     05-04 - THE NUMBER
                                                                                                     THE SIRCEAFT STATION (INTEGER)
                                                                                                                                                                                    INPUBLIS
                                                      05-66 # INDEX NUMBER FOR ASRCRAFT PESITION DURING
114
                    C
                                                                                                                                                                                    INPU0114
                                                                       THE EXPERIMENTAL PERIOD, THE AIRCRAFT POSITION MUST BE IN HALF MOUR INCREMENTS WITH THE EIRST INDEX #2 FOR THE POSITION AT .5 HRS, AFTER
 115
                    C
                                                                                                                                                                                    INPUBA15
116
                    C
                                                                                                                                                                                    INPUG116
117
                                                                                                                                                                                    INPUBLIT
                                                     RELEASE (INTEGER)

08-25 = THE NAME OF THE TRACKING SITE
28-35 = GEODETIC LATITUDE
36-45 = LONGITUDE
                    C
118
                                                                                                                                                                                    INPUBA18
119
                    C
                                                                                                                                                 (ALRHANUMERIC)
                                                                                                                                                                                    INPUDE19
                    C
                                                                                                                                                 (Deg)
 120
                                                                                                                                                                                    INPU6120
121
                                                                                                                                                 (DEG)
                                                                                                                                                                                    INPUDI21
122
                    C
                                                     48555 8 ALPITUDE
                                                                                                                                                 ( 67 )
                                                                                                                                                                                    INPU6122
123
                                                                                                                                                                                    INPUBA23
124
                                           I CARD & FINAL CARD TO SEECILY END OF SASE
                                                                                                                                                                                    INPU8124
125
                                                                  # I (HOLLERTYM)
                                                                                                                                                                                    INPU6125
                                                     02-55 & CASE NUMBER
126
                    C
                                                                                                                                                (INTEGER)
                                                                                                                                                                                    INPU6526
                                                     08-67 * CODE FOR FINAL INPUT CASE
*0.MORE BASES TO ROLLOW
127
                                                                                                                                                                                    INPUDE27
                    C
128
                                                                                                                                                                                    INPUB128
129
                                                                   BIOTHIS IS THE FIRAL CASE
                                                                                                                                                                                    INPU6129
130
                                                                                                                                                                                    INPU6230
                    Cacasasas Durpura
131
                                                                                                                                                                                    INPUGSS1
132
                                                                                                                                                                                    INPU8132
133
                                                                                                                                                                                    INPUPESS
                    Cassesses Estrictions.
134
                                                                                                                                                                                    INPUNIS4
                                       A BLANK CARD OR BUMMY TITLE HUST PRESEDE ANY INPUT DATA FOR INPUSASSEARK CASE, THE II CARD MUST ALMAYS BE THE LAST CARD OF ESCH CASEINPUSASSA PROGRAM EXECUTE USING ALL NIMINAL VALUES MUST HAVE AT LEAST INPUSATION BLENK CARD AND THE IT CARD FOR INPUT;
133
136
137
138
139
                                                                                                                                                                                    INPU0139
                    C NXEARD REQUIRED
140
                                                                                                                                                                                    INPUBE40
141
                                                                                                                                                                                    INPUBA41
142
                                                                                                                                                                                    INPUSS42
                    CHARACTERS OF BOSUMENTATION CARDSONARY OF PROPERTY OF PROPERTY OF THE CHARACTERS OF 
143
164
145
                                 SUBROSTINE INPUT
                                                                                                                                                                                    INPUBS45
                               COMMON/BLKX /KMONTHORDAY ,KYGAR .LMONTH.LDAY ,LYEAR ,KMOZ RDA. INPU6246

KYR. LBOJ EDA. LYR. TCBLC, IPRTY, IPRT9. IPRT2171PLOTINPU6347

COMMON/BLKE ZPMIPDGULAMPDG,MEIGHT

INPU6248
166
147
148
                                 COMMON/BLKE /RESTR(8)
COMMON/BLKE /RESTR(8)
COMMON/BLKE /RESTR(8)
COMMON/BLKE /RESTR(8)
COMMON/BLKE /RAME(3912) PHT(82) F LAMBDA(12) ALT(12) MOVE(22)
COMMON/BLKE4/ PNAME(397); PLAT(7) BLON(7), FALT(7), JAIR
COMMON/BLKE4/ ICASE, IFINAL
DIMENSION CORMAT(2) ; IMAGE(85)
149
                                                                                                                                                                                    INPU0249
150
                                                                                                                                                                                    INPU6150
151
 152
                                                                                                                                                                                    INPU0152
153
                                                                                                                                                                                     THPU0153
154
                                                                                                                                                                                    INPU6154
155
                                 REAL LAMPDS, LAMBDA
                                                                                                                                                                                    INPU8155
156
                                                                                                                                                                                    INPU0156
                                 DATA LA, LB, LE, LD, LE, LF; LG, LW, LI/2MA, 1HB, 1HC, 2HD, 1HE, 1HF, 1HR, 1HH,
197
                               11817
                                                                                                                                                                                    INPU0157
158
                    C READ INPUTS
                                                                                                                                                                                    INPUBAS8
                                 DATA FORMAT(E) /12H(A1+E3A6+A1)/
159
                                                                                                                                                                                     INPU0159
160
                    WRITE(6,105)
C LOOK AT FIRST CARD IMAGE AND PRINT 197
                                                                                                                                                                                     INPUGS 60
                                                                                                                                                                                    INPUSE61
162
                              4 READ(S,FORMAT) IMAGE
                                                                                                                                                                                    1NPU8262
163
                                 WRITEGO, 110) IMAGE
                                                                                                                                                                                     INPUGS63
                    C LOOK AT CARD THASE AND PRINT 199
164
                    S GALL NXCARD(FORMAT, $MASE, 15)

WHITE $ 5, $115 } I MAGE

C READ INPUT CARD USING CORRECT CARD FORMAT AS DETERMINE BY CARD CODE,

C REPEAT LOGIC FROM STATEMENT 5 UNTIL $1 CARD IS BEAD,
165
                                                                                                                                                                                     INPUSESS
166
                                                                                                                                                                                     INPUGE 66
167
                                                                                                                                                                                     INPUGES7
168
                                                                                                                                                                                     1NPU8168
                                 IF (IMAGE, EQ.LA) GO TO SO
169
                                                                                                                                                                                     INPUGS69
```

```
IF (IMAGE, EQ.LU) GO TO 80
IF (IMAGE, EQ.LU) GO TO 60
IF (IMAGE, EQ.LU) GO TO 60
IF (IMAGE, EQ.LU) GO TO 90
170
                                                                                                    INPU0170
                                                                                                                16
171
                                                                                                    INPUGS71
                                                                                                                19
172
                                                                                                    INPUB172
                                                                                                                 22
173
                                                                                                    INPU0473
                                                                                                                25
                  IF (IMAGE, EQ.LF) GO TO 60
IF (IMAGE, EQ.LG) GO TO 90
IF (IMAGE, EQ.LH) GO TO 80
IF (IMAGE, EQ.LI) GO TO 90
174
                                                                                                    INPUSE74
                                                                                                                28
175
                                                                                                    INPU0175
                                                                                                                31
176
                                                                                                    INPUBA76
                                                                                                                34
177
                                                                                                    INPU6177
                                                                                                                37
178
                  WRITE (61120)
                                                                                                    INPUB178
                                                                                                                40
179
                  GO TO 4
                                                                                                    INPUBA79
                                                                                                                42
              10 READ (5:216) KMONTHOKDAY , RYEAR .LMONTH.LDAY ,LYEAR
150
                                                                                                    INPUESSO
                                                                                                                45
181
                  GO YO 5
                                                                                                                51
                                                                                                    INPUGES1
182
              20 READ (5,216) KMO, KDAY KYR, LMO, LDA, LYR
                                                                                                    INPUB182
                                                                                                                52
183
                                                                                                    INPUGSES
                                                                                                                60
154
              36 READ $5,236) ICALC: 18877, 188745 188713, IPLOT
                                                                                                    1NPU0184
                                                                                                                61
185
                  GQ 78 5
                                                                                                    INPUSES5
                                                                                                                68
186
              40 READ (5,246) PHIPDGVLAMPDG, MEIGHT
                                                                                                                69
                                                                                                    INPUG186
187
                  60 70 5
                                                                                                    INPUBA87
                                                                                                                72
              95 READ (5:255) (RESTRIT) #1:2.8)
188
                                                                                                    INPUDE88
                                                                                                                73
                  GO TO 5
READ(5, 260) NS.(NOS(1)11=1,NS)
189
                                                                                                    INPU6189
                                                                                                                78
190
              90
                                                                                                    INPUGAGO
                                                                                                                79
191
                  00 TO 5
                                                                                                    INPUBL91
                                                                                                                85
192
              TO READ($1270) N. MOVE(B); (NAME(J.N) / Jag. 3) - PHI EN) . LAMBDASN) - ALTEN)
                                                                                                    INPU0192
                                                                                                                86
193
                  GC 40 3
                                                                                                    INPUGE93
                                                                                                                94
194
              BO READ(5.270) N. JAIR. TPHAME(J. JAIR). J. 1.5). PLAT(JAIR). PLON(JAIR).
                                                                                                                95
                                                                                                    INPU0294
195
                 1
                                 PALTIJAGRI
                                                                                                    1NPU0195
196
                  GO TO 5
                                                                                                    INPU0296 305
197
              96 READ (5,296) ICASE, IFINAL
                                                                                                    INPU0197 $04
198
                  RETURN
                                                                                                    1NPU0198
                                                                                                              208
             180 FORMAY(1H1)
199
                                                                                                    INPU0199 809
200
             110 FORMATIIX $1,1346,4%;
                                                                                                    INPUB200 209
201
             120 FORMAT(61H assess the FOLLEWING IS ILLEGAL and WILL BE IGHORED .. INPUERO1 209
202
                 100000 )
                                                                                                    INPU0202
203
             210 FORMAY(2x 2(2(12,1x),14,1x))
                                                                                                    INPU6253 109
             286 FORMAY (2X.512)
204
                                                                                                    INPUSE04 109
205
             240 FORMAT (5% 3FE0.0)
                                                                                                    INPUGE05 209
206
             256 FORMAY(58,755.0)
                                                                                                    INPUSEO6 509
             260 FORMAY(28 $3(12.1X) )
207
                                                                                                    INPU8207 109
             276 FORMAY(2x,212,1x,3A6,3P60,0)
290 FORMAY(12,14,12)
208
                                                                                                    INPUGE08 809
209
                                                                                                    INPUSE09 109
                  END
                                                                                                    INPUSE10 209
210
```

23728 HORDS OF MEMORY USED BY THIS COMPILATION

95

6

BLMBG

SAMMEL

BPMS

```
67906 01 09-85-72 11,604 READ INPUT PARAMETERS
                                   навранфафесеційропліні тиротеснаефесецення в
    PREPAGE
   PRESEAH BREAK
                  994
  CONMON LENGTH
   A CORNT BIAS
 PEIMARY SYNDEF ENTRY
    THRHT
SECONDARY SYMDEF ENTRY
    BFBBK
               LENGTH
1 BLKS
                   21
  2
    BLAB
                   3
    BLME
                   10
 4 BLAD
                   19
    BLMB
  5
                  124
```

```
10 .PSNV.

11 .PPSL.

12 .PRDD.

13 .PEVN.

14 .PECT.

15 .PECO.

16 .PERD.

17 NYBERD

554 TO THE NEXT AVAILABLE LECATION.
```

554 TO THE NEXT AVAIGABLE LOCATION.

SHAP VERUSON/ASSEMBLY DETES JMPA 056171/052571 JMRB 056171/052571 JMPC 056171/052571

THERE WORE NO MARNING FLASS IN THE ABOVE ASSEMBLY

ON 19568 WORDS OF MEMORY WERE USED BY GMAP FOR THES ASSEMBLY.

		pagaggaankakaAgBOALIMB INGGLeeseeseeseeseese	
CINE	R PRINT IN	NPUT PERAMETERS	INPR
Ches			
C			I NPR
	BANDSTART OF BO	CUMENTATION CARDSoffore de	NPR
C			NPR
	***** WALLOF	PS VERSION OF 82201870	INPR
C	The state of the s		INPR
	LANGUAGE FC	AND	INPR
C		The state of the s	NPR
Ches	SOME HEAD WAR		INPR
C			INP
Cpos	a e e e e p UR p USE -		INPR
C	TO WRITE AL		INPR
C	BESCRIBES Y		INPR
C	EXECUTION.		INPR
C			INPR
Care	-CONFAMER-		INPR
c	ALL VARIABL		NPR
C		DESCREBE FULLY TO THE PROGRAM USER THE INPUTS USED TO	
			INPR
C	IN LINU OF		NPR
C	FORMATS:		NPR
C	Anna The To		INPR
Care	100001KBAA		INPR
Č	NMBP 411		NPR
č	KHBNTH		INPR
č	KDAY		INPR
C	V = 40 1		INPR
č	KYBAR		INPR
č			INPR
C	LMONTH		NPR
C			NPR
C	LBAY		NPR
C			INPR
0	LYBAR	≠YEAR NUMBER FOR STOPRING BALCULATIONS	NPR
	10025		NPR
C	KMB	-MONTH PLOTTING AND/OR PRINTING TO BEGIN	NPR
C			INPR
C	KDA		NPR
C	uur -	THE THE RESIDENCE OF THE PARTY	INPR
C	KYR		INPR
C	TMB		NPR
C	/ Ma		INPR
C	184		NPR
č	FDF		NPR
č	LYR	- WEAR BI ATTOMA AND THE BRINGLES OF EUR	NPA
	PIN		NPR
C	ICALC		INPR
Č	10470		INPR
Č			NPR
č			NPR
č			I NPE
0	IPRYT		I NPR

96 C			INPRESS
98 C		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	INPROSS7
39 C			INPROBSS
61 C	§ PRT9		INPROB60
62 C		- BOURSNY FILE DO DATA	INPROCES
63 C			INPROB65
65 C	IPLOT		INPROS64 Inpros65
66 C		-se, EREATE A TABE FOR PLOTTING DATA FOR &	INPRSS66
68 C	*		INPROBAT Inprobat
69 C 70 C		- GALENDAR MOSTH THROUGH FILE O1 AT 556 BRI	INPROSES
70 C			INPR0870
72 C	TEASE	INTERER VALUE OF BASE NUMBER	INPROB72
73 C	IFINAL		INPROSTS
75 C	4. 4.4.48	60 MORE CASES TO POLLOW	INPROE75
76 C		ode THIS IN THE KINAL GASE	1NPR0876
78 C	PHIPDS	ARTHUR AR	INPROB7
79 C			INPROOFS
80 C	LAMPUG	-LONGITUDE OF RELFASE ROINT (DEG)	INPROSS
82 C	阿爾里西州中	MALTITUDE OF RELEASE POINT ABOVE EARTH SURFACE	INPROSS
83 C 84 C			INPROSS
85 C	RESTRIZ:	-MININUM ELERATION LOOK ANGLE FROM EACH STATION	INPROOS:
86 C 87 C			INPROBE
88 C	RESTR(3)	-MAXIMUM SON ELEVATION LOSK ANGLE FROM EACH	INPROBA
89 C			INPROBS
91 C	RESTR(4)	-MEXIMUM MOON EDEVATION LOOM ANGLE FROM ERCH	INPROSPI
92 C			INPROS9
94 C	RESTR(5)		INPROSP
95 C		-RELEASE POINT AS SEEN FROM EACH TRACKING STATION	INPROSS
97 C			INPROSO
98 C	RESTR(6)	-CONSTANT CONSITODINAL DRIFT RATE OF THE GLOUD	INPROSO!
99 C			INPROSOS
101 C	RESTRET;	-MININUM TRACKING PERIOD REGUIRED (HOS)	INPRO20
182 C	RESTRIS;		INPROSO
104 C		-RELATIVE TO THE EARTH (KMYSEC)	INPROSO
185 C	NS		INPRO10
107 C			INPROSO
108 C	N08(12)	-AR ARRAY CONTAINING THE STATION NUMBERS USED	INPROSO
110 C	Name (3:15)		INPROSE
111	PHICLES		INPRODICE
113 C			INPROB1
114 C	PWHBD#4254	-LONGITUDE OF TRACKING STATION (DEG)	INPROS1
115 C	ALV(12)	-ALTITUDE OF TRACKING STATION ABOVE SARTH SORFACE	INPRO11
117 C	ATU 1 TT	-(FT)	INPROS1
118 C	MORE(15)		INPROSS
128 C		-ARE FOR EARTH REXED STATION OR FOR AIRCREFT	INPROSE
155 C 157 C		- 「特別工事」(ATTALA A A B	INPROSES
153 C			INPROSE
124 C	PNAME (3,77	-ALPHANUMERIE DESCRIPTION FOR AIRCRAFT POSITION	INPRO32
126 C	*		INPROSES
127 C	PLATTY	-GHODEVIG LAVITUDE OF AIRCRAFT BURING	INPROSEZ!
159 C		-EXPERIMENTAL PERIOD (SEG)	1 NPR0126

```
129
                                                                                                           INPROSES
            C
130
                                          -LONSTYUDE OF AFRCRAFT DURING EXPERIMENTAL RERIOSINPROSSO
                        PLON(7)
131
                                          - (DEG)
                                                                                                           INPROSSS
132
                                          -ALTITUDE OF AJECRAFY DURING EXPERIMENTAL PERIODINPROSES
133
136
                                          - (DEG)
135
                                                                                                           INPROSSS
                                                                                                           INPROS 56
136
$37
                       ON FILE OS-PRINTER
                                                                                                           INPROSS?
138
                       ALL VARTABLES LISTED ABORE ARE USED FOR GUTPUT
                                                                                                           INPROS38
139
                                                                                                           INPROSS9
140
            CBOSSOSSES, RICTIONS.
                                                                                                           INPROS40
141
                       FORMAT GENERATOR IS A GE+629 SYSTEMS ROUTING USE OF THIS SUBROUTING ON ANOTHER SYSTEM MAY REQUIRE THAT THESE FORMAT
142
143
                        GENERATORS DE CHANGED.
                                                                                                           INPR0143
144
                                                                                                           INPROS44
145
            ChooseesU@PROGRAMS REQUIRED-
                                                                                                           IMPROS45
146
                                                                                                           INPRO146
147
            148
149
                                                                                                           INPROS49
                   SUBROUTINE INPRT

COMMON/SEKX PKMONTH-MONV , KYEAR .LMONTM.LDAV ,LYEAR .KMOE MDA. INPROSSS

KYR: LMOF LDA. LYR, TCALG, IPRTY. IPRT9. IPRT2121PLOTINPROSS2

COMMON/SEKE /PHIPDG-LAMPDG.MEIGHT

COMMON/SEKE /RESTR(8)
150
151
152
                                                                                                           INPR0153
153
154
                    COMMON/BLKD /NS. NOS(12)
COMMON/BLKE /NAME(3#12)# PHT(12)# LAMBDA(12)# ALT(12)# MOVE(12)
COMMON/BLKE4/ PNAME(377), PLAT(7). PLON(7). PALT(7), JAIR
155
                                                                                                           INPRO155
156
                                                                                                           INPROSS6
157
                                                                                                           INPRO257
                    COMMON/BLKT/ ICASE: IFINAL
DIMENSION HPT(2)
DATA OPT /8HYES .6HNO
158
                                                                                                           INPRO158
159
                                                                                                            INPR6159
160
                                                                                                           INPROSED
101
                                                                                                           INPROS61
162
                    WRITE(6.1000) ICASE-MMORTH, RDAY, ETEAR, LHONTHOLDAY, LYEAR,
                                                                                                           INPRO162
163
                                      PHIPDG LAMPDG HEIGHY, TRESTR(1) 122.6),
                                                                                                           INPROS63
164
                                                                                                           INPROSAGA
165
                                                                                                           INPROSES
166
            C WRITE GUT ONLY THOSE STATIONS BEING USED DO 100 1612NS
                                                                                                           INPROS66
                                                                                                           INPRESA7
                           =NOS 217
168
                                                                                                           INPROS68
            URITE 46.10827 K . (NAME (J.K). JR1.8), MHI(K), LAMBDA(K), ALT(K)

IF (MBVE(K), ED.0) GO TO 100

C WRITE AIRGRAPT POSITIONS AT HALF MOUR INCREMENTS INTO THE TRACKING
169
                                                                                                           INPROS69
                                                                                                                        10
170
                                                                                                           INPROS70
171
                                                                                                           INPRES71
172
                PERIOD
                                                                                                           INPROS72
                    DO 208 KK82.7
173
                                                                                                           INPR0173
                                                                                                                        20
            C NO MORE ASRCRARY POSITIONS TO BE WRITTEN

IF (PALT(KR) EG 0.3 GO TO 100

200 WRITE 6.1001) Ka(PNAMG(J.KK).J=1/5) PPLAT(KK) PPLON(KK) PALT(KR)
174
                                                                                                           INPROS74
175
                                                                                                           INPROS75
                                                                                                                        21
176
                                                                                                           INPRES76
                                                                                                                        24
177
               100 CONTINUE
                                                                                                                        32
                                                                                                           INPROS77
178
                    IF (IFRY61-17 11.12+13
                                                                                                            INPRO178
                                                                                                                        34
                11 ICR11 al
179
                                                                                                            INPRO179
                                                                                                                        35
180
                    JER11 =0
                                                                                                            INPRO180
                                                                                                                        36
                    GO Y8 14
282
                                                                                                            INPRO181
                                                                                                                        37
182
                12 IGR41 .0
                                                                                                            INPRESEZ
                                                                                                                        38
183
                    JER11 61
                                                                                                                        39
                                                                                                            INPROSES
184
                13 18722 E1
                                                                                                           INPRO184
                                                                                                                        40
189
                                                                                                           INPROSES
                                                                                                                         41
186
                    JER11 al
                                                                                                                        42
                                                                                                           INPRO186
487
                IF (IPLY NE.D) IPLT = IPLT - 1
                                                                                                            INPROSS7
                                                                                                                        43
188
                                                                                                                        44
                    WRITE (6:1002) OPT(SCALE-1)-ORT(SPRYT-1)-OPT-SPRT-1)-OPT(SCR11+1) INPROSES
OPT-LICRIE -1) OPT-SPRT-8, KMB, KVR-LMO, UDA, LYR INPROSES
189
190
                                                                                                           INPRO191
192
            1086 FORMAY GENERATOR
                                                                                                           INPR0192
193
                    RESTORE
                                                                        ..... INPR0193
195
            THE TRANSPORT OF THE PART HEX
196
                    SPACE 1
                                                                                                           INPR0196
197
             BARD CODE
                                                                                                           INPR0197
198
                          WO SEPECH CARD START DATE YIATE !!
                                                                                      STOR DATE +1/- IINPR0198
199
                                                                                                            INPRO199
200
                    SPACE 2
                                                                                                           INPROZOD
                         BESTATUBAD RELEASE POINT
                                                                                                           INPROZO1
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203	XVUDE (BARYH RADIT) # 184			INPRO205
200	E WESTRICTION	3		INPRO206
207	SPACE I	UNITERNAL A INA	CAN ELEVA	INPROSO7
59.5	XAIBU MAPEADERA . A AIBU MAPEADERA	NGLE(DEG) & 'F'S	SON ELEVA	INPROSOS
210	SRACE I			INPROB10
517	X BEIGHANESSALWALEIGH\YY) # 41	DBE) a VI	TOTAL SKY	INPR0211 INPR0212
523	SPACE 1			INPROD43
584	URÎFY RETE (KHFESE)  XEAGKING TINECHOORS) 6	8 1	T MENEMUM T	INPRODAS
290	SPACE !			INPRO216
217	報答のは下部 関本下版 (米哲ノS語書) 写字本で数 2	•	F3	INPRODIT
219	F BERUHBER OF STATIONS	TO COMBINE a +1		INPROR18 INPROR19
220	SPACE 2			INPRO220
323	G BESTATIONS TO COMBIN			INPROBESS
553	BO SYATION NAME	CATTTUBE(DEG	LONGITUDE (DEE) A	INPRO223
554	NOTITUDE OF FORMAY			INPRORZA INPRORZS
226	\$081 FORMAV(11X-12.2X,346.2x92F	15.6/885.0//)		INPR0226
227	gosz formay Generator Resydre			INPROSEZA
229	HOO! VAE		PROGRAM OPTION	INPRO228
537	X8 seese			INPROSSO
525	SPACE 1 BOSOS OPTIBNSS			INPROESS INPROESS
233	SPACE ?		and the second s	INPRO233
235	PREFORM PROCESS C	AUCULATIONS - 'A		INPRO234
236	PRINT RELUGISE WIN	DAN DVAC & LIME INAS	RVALS PER CONSTRAINT	INPRO236
237	SPAGE 1			INPROES7
239	PRINT TOYAL BASLY	RECEASE MINDOW TEN	INTERVALS. VA	INPRO238
340	SPACE 1		-	INPRO240
		U AND HHAM BARL PO	化硫二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	
542		N AND NUMBER DATLY TO	48 INTERVALS FOR BACK	
242	CREATE TAPE OF SU X STATIONS TA SPACE 1			INPR0241 INPR0242 INPR0243
243 243 243	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  USE EXISTING TAPE		HE INTERVALS FOR BACK	INPR0241 INPR0242 INPR0243 INPR0244
242 243 244 265 265	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  USE EXISTING TAPE  XB BACH STATIONS TAPE  SPACE 1	SP SUB AND MOON DA	ELY TIME INTERVALS FO	INPR0241 INPR0242 INPR0243 INPR0244 INPR0245 INPR0246
26% 26% 26% 26% 26% 26% 26%	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WHE EXISTING TAPE  XB EACH STATIONS TAPE  SPACE 1  CREATE A TAPE FOR		ELY TIME INTERVALS FO	INPR0241 IMPR0242 IMPR0243 IMPR0244 IMPR0245 IMPR0246 IMPR0247
243 243 244 265 246 247 248 249	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  USE EXISTING TAPE  XB BACH STATIONS TAPE  SPACE 1	MF SUM AND MOON DE	LY TIME INTERVALS FO	ITNPR 0241 IMPR 0242 IMPR 0243 IMPR 0244 IMPR 0245 IMPR 0247 IMPR 0247 IMPR 0247
243 244 244 265 246 247 248 249 250	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WEE EXISTING TAPE  XB BACH STATIONS TA  SPACE 1  CREATE A TAPE FOR  X 1A  SPACE 2	MF SUM AND MOON DE	ELY TIME INTERVALS FO	INPR0241 IMPR0243 IMPR0244 IMPR0244 IMPR0245 IMPR0246 IMPR0247 IMPR0249 IMPR0249
248 248 244 265 246 247 248 249 250 251	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  USE EXISTING TAPE  XB BACH STATIONS TA  SPACE 1  CREATE A TAPE FOR	SF SUB AND MOON DE RESTTING TOTAL DATE	LY TIME INTERVALS FO LY MELGAGE 'TODOWS-	INPRO241 IMPRO243 IMPRO244 IMPRO244 IMPRO245 IMPRO245 IMPRO247 IMPRO249 IMPRO250 IMPRO251 IMPRO251 IMPRO251
248 248 244 265 246 247 248 249 250 251 252 253	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WHE EXISTING TAPE  XB BACH STATIONS TA  SPACE 1  CREATE A TAPE FOR  X TA  SPACE 2  XD/OR PRINTED 4049A  SPACE 1	MF SUM AND MOON DE	LY TIME INTERVALS FO LY MELGAGE 'TODOWS-	INPRO241 INPRO243 INPRO244 INPRO244 INPRO245 INPRO247 INPRO247 INPRO249 INPRO250 INPRO250 INPRO253
248 248 244 265 246 247 248 249 250 251	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WHE EXISTING TAPE  XB BACH STATIONS TA  SPACE 1  CREATE A TAPE FOR  X TA  SPACE 2  XD/OR PRINTED 40498	SF SUB AND MOON DE RESTTING TOTAL DATE	LY TIME INTERVALS FO LY MELGAGE 'TODOWS-	INPRO241 INPRO243 INPRO244 INPRO244 INPRO245 INPRO247 INPRO247 INPRO249 INPRO250 INPRO253 INPRO253 INPRO254
248 248 244 245 246 247 248 249 250 251 252 253 254 255	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WEE EXISTING TAPE  XB EACH STATIONS TA  SPACE 1  CREATE A TAPE FOR  X TA  SPACE 2  XD/OR PRINTED 40496  SPACE 1  XATE TIME TO	SF SUB AND MOON DE RESTTING TOTAL DATE	LY TIME INTERVALS FO LY MELGAGE 'TODOWS-	INPRO241 INPRO243 INPRO244 INPRO244 INPRO245 INPRO247 INPRO247 INPRO249 INPRO253 INPRO253 INPRO253 INPRO253 INPRO255 INPRO255
248 248 244 265 246 247 248 239 250 251 252 253 254 255	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WEE EXISTING TAPE  XB EACH STATIONS TA  SPACE 1  CREATE A TAPE FOR  X TA  SPACE 2  XD/OR PRINTED 45456  SPACE 1  XATE (I/I/) (I  END OF FORMAT	SF SUB AND MOON DE RESTTING TOTAL DATE	LY TIME INTERVALS FO LY MELGAGE 'TODOWS-	INPRO241 INPRO243 INPRO244 INPRO244 INPRO245 INPRO247 INPRO247 INPRO249 INPRO251 INPRO253 INPRO253 INPRO253 INPRO253
248 244 245 246 247 248 248 250 251 252 253 254 255 256 257	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WEE EXISTING TAPE  XB EACH STATIONS TA  SPACE 1  CREATE A TAPE FOR  X TA  SPACE 2  XD/OR PRINTED 40496  SPACE 1  XATE TIME TO	SF SUB AND MOON DA RESTTING FOTAL DATE	LY TIME INTERVALS FO LY MELGAGE 'TODOWS-	INPRO241 INPRO243 INPRO244 INPRO244 INPRO245 INPRO247 INPRO247 INPRO249 INPRO253 INPRO253 INPRO253 INPRO253 INPRO255 INPRO255
248 244 245 246 247 248 248 250 251 252 253 254 255 256 257	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WE EXISTING TAPE  XB EACH STATIONS TA  SPACE 1  CREATE A TAPE FOR  X 1A  SPACE 2  XD/OR PRINTED 45465  SPACE 1  XDTE 11/11/ 11  END OF FORMAT  RETURN  END	SF SUB AND MOON DA RESTTING FOTAL DATE	LY TIME INTERVALS FO LY MELGAGE 'TODOWS-	INPRO241 INPRO243 INPRO244 INPRO244 INPRO245 INPRO247 INPRO247 INPRO249 INPRO253 INPRO253 INPRO253 INPRO253 INPRO255 INPRO255
248 248 244 269 246 247 248 239 251 252 253 254 255 256 257	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WEE EXISTING TAPE  XB EACH STATIONS TAPE  SPACE 1  CREATE A TAPE POR  X TA  SPACE 2  XD/OR PRINTED 48488  SPACE 1  XATE TI/TI/ TI  END OF FORMAT  RETURN  END OF FORMAT  RETURN  END OF MEMORY OSED BY THIS SOM	SF SUB AND MOON DA RESTTING FOTAL DATE	LY TIME INTERVALS FO LY MELGAGE 'TODOWS-	INPRO241 INPRO243 INPRO244 INPRO244 INPRO245 INPRO247 INPRO247 INPRO249 INPRO253 INPRO253 INPRO253 INPRO253 INPRO255 INPRO255
248 244 245 246 247 248 248 250 251 252 253 254 255 256 257	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WHE EXISTING TAPE  XB EACH STATIONS TA  SPACE 1  CREATE A TAPE POR  X TA  SPACE 2  XD/OR PRINTED 40484  SPACE 1  XATE TI/TI/ TI  END OF FORMAT  RETURN  END  FRACE SOME SOME SOME SOME SOME SOME SOME SOM	SP SUB AND MOON DA RESTTANG FOTAL DATE ***** D START DATE PELATION RARAMETERS	LY TIME INTERVALS FO LY RELEASE 'EDOWS- LTES TO BE PLETTED AN	INPRO244 INPRO244 INPRO244 INPRO244 INPRO244 INPRO244 INPRO251 INPRO255 INP
248 243 244 265 246 247 246 239 250 251 252 253 254 255 256 257	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WHE EXISTING TAPE  XB EACH STATIONS TA  SPACE 1  CREATE A TAPE POR  X TA  SPACE 2  XD/OR PRINTED 40484  SPACE 1  XATE TI/TI/ TI  END OF FORMAT  RETURN  END  FRA WERDS OF MEMORY OSED BY THIS SOM  OV-85-72 \$\$4833 PRINT INPUT	SP SUB AND MOON DA RESTTANG FOTAL DATE ***** D START DATE PELATION RARAMETERS	LY TIME INTERVALS FO LY MELGAGE 'TODOWS-	INPRO244 INPRO244 INPRO244 INPRO244 INPRO244 INPRO244 INPRO251 INPRO255 INP
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248 248 244 265 246 247 248 249 250 251 252 253 254 255 256 257	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WHE EXISTING TAPE  XB EACH STATIONS TAPE  XB EACH STATIONS TAPE  CREATE A TAPE POR  X TA  SPACE 2  XD/OR PRINTED 46486  SPACE 1  XATE TI/TI/ TI  END OF FORMAT  RETURN  END  FRE WERDS OF MEMORY OSED BY THIS SOM  69-85-72 \$\$4838 PRINT INPUT  68866	SP SUB AND MOON DA RESTTANG FOTAL DATE ***** D START DATE PELATION RARAMETERS	LY TIME INTERVALS FO LY RELEASE 'EDOWS- LTES TO BE PLETTED AN	INPRO244 INPRO244 INPRO244 INPRO244 INPRO244 INPRO244 INPRO251 INPRO255 INP
248 243 244 265 246 247 248 239 251 252 253 254 255 256 257 28	CREATE TAPE OF SU  X STATIONS TA  SPACE 1  WHE EXISTING TAPE  XB EACH STATIONS TA  SPACE 1  CREATE A TAPE POR  X TA  SPACE 2  XD/OR PRINTED 40404  SPACE 1  XATE TI/TI/ TI  END OF FORMAT  RETURN  END  FRA WERDS OF MEMORY OSED BY THIS SOM  OV-85-72 \$\$4833 PRINT INPUT  688466	SP SUB AND MOON DA RESTTANG FOTAL DATE ***** D START DATE PELATION RARAMETERS	LY TIME INTERVALS FO LY RELEASE 'EDOWS- LTES TO BE PLETTED AN	INPRO244 INPRO244 INPRO244 INPRO244 INPRO244 INPRO244 INPRO251 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255 INPRO255

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2 CBORA COMARKEION MORAZNE	CONV6861 #CONV6862 CONV6863
CHANGESTRY OF BOCUMENTATION CARDSSTRATES TO SECOND	#CONV8864 CONV8805
CHOMOSOMANA WALLUPS VERSION OF \$2845410	CONV0806 CONV0807
S CR-MB-LANGUAGN-FORTRAN IV	CONVESOS
11 C CO-DE-COUNTING-GE 625	CONV8869 CONV8810 CONV8811
18 CB-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G	CONV8812 CONV8813 CONV8814
19 C CONTROL OF THE GRODEYSO GOORDENATES OF THE RELEASE POINT AND OF THE 25 C STRY SONS FRONTERY TO GEOCEMENT 17 AUSO EALCOLATE THE ROLLONING	CONVESS S
25 d A. THE REDIUS VECYTRS FOR THE RELEASE POINT AND STATIONS IN EACH 21 C DITHE STATE AND SOSTRES OF THE GROSENTRIS SOURCEMANS	CONVESSI CONVESS
32 C C!ARE CEGRENANIC XXANS CRNECHESTE IN EUR	CONV6624
25 C C. THE RESTRICTIONS IN DESPES TO RADIANS	CONV8825
27 C 28 C B; YHQ SRAER FIXED BREFY HF THE CHOUD IN ENDIAMS/HOUR 29 C	CONV6827 CONV6828 CONV6829
30 C E, THE NECESSARY BATES RECESSARY BATES FO AN EFECH BATE OF JABUARY O 31 C OF THE SEAR REGUESTED TO BEGING TO BE THE SE JABUARY O 32 C	CONV8830 CONV8831 CONV8832
33 C F. THE MEAN LONGSTUDE OF THE SWN FOR THE FERRY DAY TO BE 34 C CARCULATED. 39 C	CONV6833 CONV6834 CONV6835
36 C G. ROUGH ESTIMATE OF THE SUN AND NOON TIME INTERVALS FOR THE STATEMENT	CONVERSO CONVERSO
\$\$ C	CONVESS
40 C LHENTH -MONTH NUMBER ROW STOPRING BALCULATIONS	CONV6840 CONV6841
43 C LEST -DAY NUMBER FOR STOPRING SALCULATIONS	CONV8842 CONV8843 CONV8844

-VEAR NUMBER FOR STOPRING BALCULATIONS

FASVE

17	C BURE	-JULIAN DATE FOR CURRENT DATA	CONVOS
19	C#+84+4842A4bA4+		CONVES
13	Ů	-KELONETERS	CONVES
11	C ERM	-CONVERSION RAGEOR PROS GARTH RADII UNITS TO	CONVES
10	C RYU	- CONVERSION RADIOR PRON RADIANS TO HOURS	CONVES
87 88	C BYR	OCONYERSION REGREE PROB DEGES TO REDIENS	CONVOS
55 56	C PAGY(F)	- ANT THOR OR ASECRARY DURGHG EXPERIMENTAL RERIO - (事務的)	CONVOS
84	C		CONVE
62	C PUBR(F)	-LONGSTUDE OF ABECHAPY DURENG EXPERSHENTAL PERIO	CONVES
5 <u>1</u>	Č	- CERTRENTAL RESIST (DEC)	CONVES
99	C brasa		CONVES
98	C FMERS 2079	- ALPEARUMESTE BESCRIPTION FOR AIRCRAST POSITION - DUNING SXEEDINENTAL PERIOD	CONVES
96	6	-earron Alechapy	CONVE
94	Č	OGE.FOR FISHD STATEON	CONVES
62 65	C MUAR 6853	-CODE NUMBER TO DETERMENT OF STATION COORDINATES -ARE FOR SEATH STABS STATION OF FOR AIRCREFT	CONVES
91	C		CONVES
14	C WPA(2E)	-AUTTYBOR OF TREETING STATES ABOVE SARTH SURFAS -{RT}	
38	C Pamanatiss	- CONSTRUDE OF ASTONING STVATSH (DEC)	CONVES
16 17	g	The state of the s	CONVOS
19	C BH\$(28)		CONVE
53	C NBB(22)	-an array gontabling the systics humbers ded	CONASS
12	C NS	-THE RUMBER OF RYATION USED IN THE PROGRAM	CONVES
0	C	-MELATTE TO THE BERTH (KM/SEC)	CONASS
8	C सम्बद्धारमार्थः	- ONE-HALF OF CLOOD GROSTH SATE APTER RELEASE	CONVES
7	C RESTRICTS	····································	CONVAS
75	G	-TRANS METRY ARTEL AD AME BY WAN (KH\2EE)	CONVES.
73	C MESTA(6)	-CONSTANT LONG TODG NAL DRIFT RATE OF THE SLOUD	CONVES
71	9	- (MYACE sen #)	CONVES
70	8		HCONVOS
99	C HENTRES	AMEXIMUM TOTAL SET DECEMBERISED SESSMENESS OF THE	CONVES
56	C RESPR (4)	- MARYNUM MUON ELEVATION LOUR ANGLE FROM ENCH - TRACHING STATISH LOURS	CONVES
5	6	The state of the s	CONVOC
3	C #####(3)	-Marinum son exeverson look andle from Esch -Tracking tration bose;	CONVES
12	C	-TG THE RELEASE ROOMY SDEG!	CONVES
1	C RESTR(2)	-MENTHUM GUERATEN LOOK ANGLE FROM SACH STATION	CONASS
19	C C	- ( ( MU )	CONVES
17	C MESCHA	CANTITUDE OF REMEASE POINT AGOVE GARTH SURFACE	CONVES
19	C LAMPUS	-Langsande or seriges solna total	CONVES
3	C DHSPDS	-decouve Catifude of RELEASE POINT(SEG)	CONVES
15	C KYBAR	-YEAR NUMBER FEE STARTING SALCULATIONS	CONVES
9	C		CONVOS
10	C NEST	ODEY NUMBER FOR STARTING BALCULATIONS	CONVES
17	こ 共有要用をは	-MONTH NUMBER FOR STARRING SALCULATIONS	CONVES

110	MBMJS	-NUMBER OF BEYS EAST EROCH DATE TO DATE FOR	CONVESTS CONVESTS
155 6		-stating Encountry tintered	CONV0121
133 0		-NUMBER OF BEYE RAST SROUM DATE TO BATE FOR	CONVESS
184 6		-SYOPPING ENCOUSETSONS (INTEGER)	CONVOSS
139 0		- IUITER RITH AT WARDARY & RE VOIS DATA BORISO	CONVOSES
125 0		-JULIAN DATE OF BARDANE O SE ASTE DATE BESIES	CONV8826
789 6	BINELY	- STHE OF RELEASE POINTS SECCENTRIS LATITUDE	CORVOSE
720 C		-COSTNE OF RELEASE POINTS SECCENTRIS LATETUDE	CONV6129
131 6		-COSTRE OF RELEASE POINTS NEOCENTRIE LATETODE	C09V0131
135 C		-86NE OF MELEREE POINT + S CONGITUDE	CONVESS
122 0		-COSING OF RELEASE POINTES LONGITUDE	CONV6233
130 0			CONVOSS
136 0		OREDING DISTANCE FROM BARTH GENTER TO RELEASE OPEING TERMS	CONV0136
189 0	the state of the s		CONVOL38
184 6		-GROSEMAKIS & GRADENENT OF SEFERRE DEINA SECTI	CONVOSS
747 0		-GADGENYMIE & COMPONENT OF GELLEASE PGINT SERUS	CONV0240
248 C			CONVOS42
742 (		- GEOGENTRIE Y SEMPENSION OF ENLEASE PRINT (ERU)	CONVOS43
149 0	PHSP	- GROSSHYRIE CAVITUSE OF REUSASE POINT (RASIENS)	CONVESAS
146 0		-LONETYUDE OR MELIEUS ROINT (RADIANE)	CONVOS46
240			CONVOS48
156 0		- SUEVATION COMETEASHT (MADGENS)	CONV0249
192 0		-34N BLEVETTON BODSTREINT (REDIAMS)	CONV6191
135 0		Wass at Superior Samageriny (Santano)	CONVESS
132 (		-MOON BLEVSTION HOUSINGINY (RADIAMS)	CONVOSS
195 0		- INPUT VALUE FOR TOTAL SKY MACKERCUMB BRIGHTHESS	CONVOSSS
196 0		- (RAYURIGHE)	CONVESS
198 (		-Choud Drift Rate bradewsyur)	CONVESS
189	R(F)	-HENTHUM TORESTED RERIED AFTER BELEASE THEUSS)	CO#40592
795 0		-OREGHALF SE CLEOD GROUTH BATE (RADIANS/HE)	CONVESSS CONVESSS
164 0		- SANG OF TRACETING STATION TO GEOCEMERIC CATIFUD	CONV8463
145 C		-COSIDE OF TRACETING STATIONS GEOGEMENIC WATITUD	CONV8165
187 0			CONVERST
100 6		- SING OF TRACKENS STATIONS LONGITUDE	CONVESS
169 3	COSSCHIES	-cosing of tracting stationes Longitude	CONVESSO CONVESTO
171 0		- DERING UCDORS BANK KIDY. DRUGED YN YSIRYNI	CONVESTA
173 0		-REDIOS VERTER ERON GARYM GRRTER TO TRACKING -BYATTON (SRU)	CONV0172
974 0			CONVEST
175 0	a.anidal	- GEOGENTRIE & SEMPENENT OF TRACKING STATION (ERU	CONV0279
177 0		-GGOGERTARIE & CEMPENENS OF TRACKING STATION (ERU	
179 (	8962(62)	-GEGGEHTRIE 2 GBHPBNENE OF TRACHING STATION (GRU	CONVESTS
190 (	H##1(12)	-GBORNALE CATATOR OR ANGELING STATION FRADIAN	CONV0101
102 0		-LONGITUDE OF THE TRACKING STATION (GADIAES)	CONVOSES
184 6			COMV0284
186 0		-BINE OF ASREERY GRACENTESC LATITUDE DURING	CONVOSAS
187		- SEPERSHENZAL PERIOD	CONVOSES
188 0	C SPLATES	-COSTAR OF ATROUPFY GERGENTRES LATITUDE DURSMO	CONVESSE
199 (		-REPERSHENTAL PERSE	CONVOSS
	STELON(T)	- STAB OF ASHSERPY LONGITUDE DURING EXPESIMENTA	CONVESO

198	<u> </u>	-PER100	CONV <sub>6192</sub>
193	C COSCOMANY C		CONV0193 CONV0194 CONV0899
196	C RV&(77	-DESTANCE REGM BERTH CENTER TO ASRCRAFT DURSING	G04V8194 C04V8197 C04V8198
201 200 199	C ASEX(9)	-GEOGENTRIC & SEMPSHENT OF MIRCHAFT ROSITION -DENTHS EXHESTMENTAL PERSON (ERU)	CONVOS99 CONVOS00 CONVOS01
202 203 204	C AGBY(Y)	-GEOGENTHIE Y GOMPONENT OF KINCHAFY ROSITION -DUNING EXPERIMENTAL PERIOD (SRU)	CONV0802 CONV0803 CONV0804
205	C A682(7)	-GHOSENTRIE 2 GEMPENENT OF BIRCHAFT ROSITION	CONV6205
287 208 209	C REBY(7)	-DURING EXRESIMENTAL PERIOD (ERU)	CONVERSE CONVERSE
211 211	C C C RLBR(7)	-EMPERTHENTAL PERIOD (GADIANS) -LONGTVUDE OF ASSCRAFT DURING EXPERIMENTAL REGION	CONV0210 CONV0211 CONV0212
213 214 215	C SUEL	-(RADIANS) -HEAN CONGITODE OF THE SUN AT 0 MRS.UT. FOR 1ST	CONVOR14 CONVOR14 CONVOR15
216 217 218	C C	-DAV (BEG)	CONV0216
510	· ·	SOURCE DAILY RELEASE WINDOW START/STOP TIMES, -18T INDEX FOR STORING START/STOP TIMES, -19375 FOR STARE TAMES	CONV8219 CONV8219
553 555 557	<u> </u>	- 29476 FOR STOP TIMES - 2内D THDEX FOR THE CONSTRAIGT - 1:EARTH SMADRY	CONVORZI CONVORZI CONVORZI
224 225 226	<u>e</u> <u>e</u>	- 2±82EVATION - 3=58N - 4±80CN	CONV8824 CONV8825 CONV8826
227 228 229	<u> </u>	- SETOTAL SKY GROND WESSHTNESS - SRD THDEX FOR THE STATION BUMBER	CONV8227 CONV8228 CONV8229
527 527 520	C JEND	-NUMBER OF DISSERTS VALUES STORED FOR -EXPERIMENTAL PERIOD DAYA	CONV6230
233 234	C C#+6+++6PREPTRICTIONS+		CONV0232 CONV0233 CONV0234
235 236 237	C AMACIANA MAD	THE PERIODS CAURINATED FOR THE SUN AND MEOS ARE THE TIMES FOR THE SCHURENCE OF ASTRONOMICAL FOR THE MOON TO SE AT THE TRACKING STATION'S LOCAL	
540 526 538	C NEGVENLÝ BODI	THER RELATION GLEGATION ANGLE OF THESE THO ES TO BACH TRACKENG STATION WHICH IS GUITE L REQUIRE A PEOSESH CHANGE, THE CORFFERIENTS 29:0	CONV6239 CONV6239 CONV6240
242 542 548	C YNG GOERFICIE	HE APPROXIMATE TRIBE FOR ASTRONOMICAL THILIGHT AND INTE 12.5 AND D.G ARE THE APPROXIMATE GOSFFICIENTS IND MOCRESCIBLY EAR FOR A POINT OF G DEGREES	
249 249 266	C LATITUDE AND C THE GRODETIC	O DECREES LENGITURES EARTH MODEL USED IS THE FISHER EARTH MODEL WITH INTH ACTIUS OF 6378,024 MILOMETERS;	CONVO244 CONVO245 CONVO246
248 249	C C C C C C C C C C C C C C C C C C C	The second distribution of the second	CONV0248 CONV0248 CONV0249
550	CHORGOGENENT OF NORUME	NYAVION CARDSTOCKSOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCC	CONV0850
294 293	COMMON/OFFX YEAR	INTERNAL SEAS OF MENTAL PARTY SEAS SEAS ADA.	CONV0252 CONV0253 CONV0254
299 296 297	COMMESSACKES PRI	: LND9 EDA, LERS TOBLE, IPRTY, IBRTY, IPRTEITIFLD JUL, NDRUG, NOTES BPECK IPDEGLAMPDE, METCHT	VCONVESS CONVESS CONVESS
520 520 538		TOLY CORE COCZ	CONVERSE CONVERSE CONVERSE
202 202 201	COMMON/SERT FREE	(TRES)	CONVER61 CONVER62 CONVER63
264		48(2812) BMI(23)	CONV0264

39	The state of the s	CONVERS	
50		CONVERSE	
50	T	CONVERST	
50		COMASSES	
26		CONVESSO	
27		CONVERTO	
27		CONVERS1	
27		CONVERTE	
27		CONV6273	
27	4 EGHMOG/MLKG/ SUNL, GHA	CONVERT4	
27		CONVERTS	
27	A THE TENTO STATE OF THE PROPERTY OF THE PROPE	CONVORTE	
27	7 DGOBLE PRECISION DYR. RYD. SYR. WXLEP!	CONVERTT	
27		CONVERTE	
27		CONVERTE	
58		CONV8280	
58		CONVERSI	- 10
5\$		CONVESS	
59		CONVESS	
28		CONVERS4	2
28		CONVERSS	3
50		CONVESSE	
59		CONVERST	
29		CONVERSE	4
30		CONVAZSP	5
5.0	The state of the s	CONVERSO	
29		CONVERS1	6
29		CONVERSE	7
58		CONVERS	8
29		CONVOR94	
29		CONVERS	9
50		CONVERSE	10
29		CONV0297	11
5.0		COMASSOS	
29		CONVERSE	12
36		CONVESED	13
30		CONV8801	14
30		CONV0502	15
30		CONVESOS	16
30		CONVESO4	17
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35		CONVESSO	18
38		CONVESO7	19
30	A A A A A A A A A A A A A A A A A A A	CONVESOS	20
39		CONVESOS	
35		CONV0510	21
31		CONVESSE	5.5
33	3 CGUCLGLCOS CRLAMDA)	CONV8842	23
38	4 C CAUCUSATE RELEASE POINT RADIUS RECTOR AND SHOS. XVV, Z COMP; IN ERO	CONVES43	24
31		CONVES14	0.6
31	6 CECK ARVCVCGSCLT+CGSCLN	CONV8815	25
31		CONV0516	26 27
35		CONVESTS	28
31		CONVOSIS	20
32	B MESS SESSON, JENES S (RESTRICTIONS)	CONVESSO	29
32		CONVESSI	30
32	2 C	CONV8855	- 0
32		CONVOSES	31
32	4 L SNOWITY	CONV8524	32
32	S C PERFORM DE LODE EN ONLY STATIONE REQUESTED IMRU INPUT	CONVASOS	
32		4CONVARA4	
32		CONV0327	3.5
32	e medita spairl a Des	CONVOSES	34
32		CONV6329	35
33	GALL ROYDURENGT SAVE (L) SAPHIELS, MRKILLS	CONVESSO	36
33	L C COMPUTE VETG, FORES, OF STATIONIS GEOGENTRIC ANGLES	CONVESSE	
32	2 STARFACTORIN(MBHI(F))	CONVESSE	37
33	S EDSELVILIOEOB(MPHILE)	CONVOS33	38
33	4 SINSFELLINGSHUMP(F)	CONVOS34	39
33	5 COSSLE(L) SEOS (MLAMD(L))	CONVOSS5	40
33		CONVESSE	
33	7 395X4648#V\$4E1+CO\$8644E1+CO\$8EH45	CONVOS37	41
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    339
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                     C COMPUTE FERST QUESS AT QUE START/ETON TEMES FOR BACH STATION

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                      C COMPUTE PESTTIEN PARAMETERS FOR ATROBETY LOCATIONS DURING TRACRING
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    396
                     C PERIOD
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                                 BO SOR JOS GEND
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                     C CONVERY ASRCRAFT ADTITUDE TO ERO AND ENGLES TO GADIANS AND TRASSFORM
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    358
                     C TO SESSENTATOS
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                                 CALL SDYOGE (MCY: RVS(J) PRLAT(J) PELAY(J)
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                     C COMPUTE THIS FUNBTIONS OF ASRCRAFTS BESCENTRIC ANGLES
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                      C COMPUTE ASKCRARY S SESCENTRSC X4 Y4 Z DEMMONENTS SO ERU
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                                 AGEZCUS
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                      C COMPUTE FERST BUESS AT BUM AND HOST STARFISTOR TIMES FOR LAST ROSITIONCONVOSTA
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                      C OF ASRCREFY ONLY
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131 GMAP THER	S 18 A	HE NEXT AVAILABLE COCATIONS  N/BSTEMBLY PETER JIPA 690176/052971 JMRB 096871/092521 JMPC 05011	72/058571
132 GMAP THER	YEAU O	HE NEXT AVAILABLE LECATIONS  NJESTEMBLY PETER JOHA 690175/052521 JMRS 096871/052521 JMRS	72/058571
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CUMPER B SECONDARY SYNDER BETTRU

28 CP4664969UPPUP SESSMAPSD6	8688.648
27 C	GD8C8825
SO C R OBABIUS VERYOR PROM BANTH GENTER (REU)	GDGC6829
31 C	GDGC0831
32 C BLEY -SEDCENTRIE LATITUDE (REDIAMS)	00000032
33 C	GD060833
34 CRESESSESSESSESSESSESSESSESSESSESSESSESSE	GDGC6834
89 C NOW WINDWIN	GDGC8635
30 C	GDGC0036 GDGC0037
37 CBABBABBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	GDGC6838
38 C MANA	GDGC6839
40 CHOMOGODENE OF BORUMENTATION CARESGOODS SACOSSOCOS SOCOSSOCOS	4GDGC6840
48 0	GDGC6841
42 SUBROUVINE SUTOSC (ELTYREDUAY, BEET)	GD3C6842
43 BATA 871,092621817. BEBRUTTESTON TER	GDGC6943
64 ARSSEGVATA ATABE(X) BORY(1, BS-XCX))	GDGC0844
dy C DEFINE TREE PUNCTIONS OF LAY	GDGC6845
66 SAFAS & SENCOLATO	GDGC6847 2
48 THPMI ASHPHIJCSPMI	GDGC8848 3
SA C MIN N VAD A OK ROME TO VAD TS BREE MUINGING ON MAAR PAAR	GDGC8849
PQ X 0A7 SUNYTY: 6 BEGGYNPHIOTHPU!)	GDGC8090 4
51 Y GE ANDOTHI	GD3C0051 5
92 C FIND 8 AND T SOMPONENTS YOUR ESNS IN AND 15 OF BITE LITE!	GD0C6852
93 NS EX CARLOCEDNA	GDGC6893 6
34 BA PA PA PARLA PARINA	GDGCegs4 7
SS C PIND ROBLAY SS R SERVEPS SPYSBY)	GDGC6855 GDGC6856 8
57 DEAT SARCEIN(PT)R)	GDGCag57 F
58 RETURN	GDGC0858 10
99 BNO	G0GC0059 11
PREFASE PRUSHAN BRUSK 198	
A BBRMA BIAR &	
PREMERY SYNDEP ENTRY	
GDAAGC A	
GDYNGC 8	
GDTGGC 8 SECONDERS SYNDEF ENTRY BLOOK LENSTY	
GDYNGC B SECONDARY SYNDEF ENYRU  BLOCK LANGTU	
GDYNGC B SECONDARY SYNDRY ENVRU  BLOCK LENGTH  SYNNEY  1 CON 2 SIN	
GDYGGC B SECONDARY SYNDRY ENYRU  BLOCK LENGTU  SYMMER  1 COS 2 SIN 3 SORV	
GDTGGC B  SCONDAGG SYNDEF ENTRE  BLOCK LENGTH  SUMMEF  1 COS  2 SIN  3 SORV  4 AVANS  4 AVANS  HAP YERSEON/ASSEMBLY BATES JMPA 030178/052921 JMR0 036171/052931	JMPC 050171/05857
######################################	JMPC 050171/05857
GUYŞGC 8  SECONDARA SYNDEF ENYRA  BLARK LEWEYA  SYNBER  1 COS  2 SIB  4 AYBNE 155 IS THE NEXT ARAIDASEE ENCAYION  155 IS THE NEXT ARAIDASEE ENCAYION  THERE NASE NO NARNENG FLASS IN THE ABOVE ASSENDLY  PHENE NASE NO NARNENG FLASS IN THE ABOVE ASSENDLY  THERE NASE NO NARNENG FLASS IN THE ABOVE ASSENDLY  1 19250 NONDS OF HENORY NEEK USED BY CMAP FOR TWEE NSSENDLY	
GUTGGC 8  SECONDARY SYNDEF ENTRY  BLASK LAMETY  SYNGEF  1 CON 2 SIN 3 SORV 4 AYAN2 199 18 THE NEXT ATAILABLE UNCATION, MAP SERVEDN/ASSEMBLY BATES JMPA 030174/052521 JMRO 0\$6171/052521 THERE MARE NO HARNENG FLASS IN THE MBOVE ASSEMBLY 5 19250 NORDS OF MEMORY NERE USED BY GMAP FOR THE MSSEMBLY?  7905 08 89-85-72 \$25049 BLEVATION BONDRASMY	

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7	CR-Se-sessing AVEFORS AF		elcheso Elcheso
8	CHORSES LANGUAGE FORTRA	IN IV	ELCHOSO
9	Ğ		ELCHESO
1	C		elchesi Elchesi
2	Cossess PURPOSES		EL CHOSE
3 4	C SFRANAGU VARES	THE BARTOM TOO CHOUD WILL DE VIEWED AT AN E GREATER THAN THE OSVEN CONSTRAINT (R(B))DURING	ELCHOO1
<u>`</u> —			ELCHOSS
6	CHARACKERSTOR		EL CNOB1
8	C FREM SAEN TRACK	THE STATION A BEGGON GAN BE DEFINED WITHIN WHICH	ELCHOO!
9	C ALL POSHYS AY A	LTITUDE OF THE BARIUM CLOUD CAN BE VIEWED AT AN	ELCHOE1
1	C RADIUS OF THIS		ELCH992 Elch992
3	C FOUND, THE PROJE	CYTON POINT OF THE TRESKIES STATION AND OF THE	ELCHOSS
4	C GLOUD 12 OSED. T		ELCN882 Elcn882
5	C RADYUS BE THE	DENTINED REGION THE THE CONSTRAINT IN MEY FOR	ELCHESS
•	C YTHE OF RELEASE	FOR BOOK OF A STANTA TO AREA COME TO BE ABLILLE IL	ELCN692
8	C ARRE GIREN CONS		elcness Elcness
9	ChanavaatiminAa		ELCH002
1	C NS .		ELCH003 Elch003
2			ELCH063
3	C NOB(28)		ELCN883 Elcn883
5			EL CH 683
7	c .	POINY (ERO)	ELENSOS
8	C SINCLT .		elcn683 Elcn683
9	C		EL CHOUS
1	C C08CF4 .	COSINE OF ROLLESSE POINTYS SHOCKHYRIG LATETODE	ELCN884
3	C SEMELN		BLCN084
3	C GONCLN .	COSTNE OF RELEASE POINT S CONGITUDE	ELCN884 ELCN884
5	C		ELCH684
6	C NAME (5,82)	NAME OF TRACKING STATEONS USED	EL CHOSA
6		PREDIUS VERTER BROW BARTH GENTER TO TRACKING	ELCHOS4
9	,	EVATION (ERO)	ELCH884
0	C \$185LT(\$2)	BEINE OF TRASSING STATIONS GROCERIRIS LATITUDE	ELCHOOS
2	C		SL CHOCS
4	C C088F4(\$5)	- GOSING OF TRANSMINA STATION S GROCESTRIC CATITUDE	ELCH885
5	C SINSLAVES	- SING OF TRACETING STATEONED LANGITUDE	EL CHOSS
7	C 8085LR(12)	SGSTHE OF TRACKING STATIONS LONGITUDE	EL CHOSS
8	C	spasius or taractua sittinges fountions	ELCHORS
9	C R(8)	- SUERKARON CRESTURENT ELVENAMEN	ELCN889
0	C R(B)	- CLOUD DRIET MATE ERADSANS/MR)	ELCHOSE ELCHOSE
2	Č .		ELCN856
3	C M(F)	MENSHUM TERRITOR DEFINED AFTER BELLENE (HOURS)	ELCHOSS
5	C HARFFI	ARTH OL &O DESKERS IN STATEME	ELCH896
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	S. Sucons
78 C	ELCHOSTS ELCHOSTS
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83 C NOME ANGWE	ELCHOUS1
88 C	ELCHOOS2
#\$ C ELEDFY #EQUERED=	ELCHOSS4
85 C	ELCNOSS
#6 CP-MCEND OF BORUMENTATION CARBST	eeELCN8886
87 C	ELCHEG87
88 SUBROUTINE ECONOR 89 CUMMOR/BEKE1/2SINCLT# ECONOLIN# SOCIENA RVC	ELCHOSSS ELCHOSSS
PO COMMONICATIONS SOSCLE SINGUND SOSCLE RVC	ELCN0090
95 COMMENTERD INS. NOS(18)	ELCN3891
92 GOMMON, MEKE , MAME (8412) PHE (82) LAMBS (12) 9 ALT (12) MOVE (12)	ELCH0092
62 COMMON-BEKETA ZINSFA(RE) COSSFACES) SENSFAIRS COSSFA(TS)	ELCH0093
94 1 RYS(12) 95 COMMON/BLKK /DTR, RYDY HYR; HALFER, RYH, AUL DELTA(4) & ERMI BGHA	ELCH8894
96 BOHBLE PREETSION DYR. RYB. NYS. TELEP.	ELCN0696
97 XMCSEGLY7 LXTAN(X/SORT(2+0-XVX))	ELCN8897
V8 DO 100 1612NB	ELCHOOPS
100 C FIND THE ARE REDIUS FOR THE LIMET ANGLE OF EESTSTAN - (COSALF)	ELCN0899 2
100 C Lind ime Muc widing bou Ame Finch Vinch Vinch Ob Sec. 844 (F) Line 1	ELCN6800
162 C FIND THE ARC REDIUS FOR STATEON LECOTHETS	ELCHOSO2
103 COSBET: SENSET(L) - SENSET - CESSET - LOGSEN(L) - BOSCHN -	ELCNOSO3 4
104 1 STASCHELD GERNELRY	ELCHOSOS 5
105 CHECK FOR ELECTION CONSTRAINT FOR DEEPT DUBING TRACKING RERIOD	ELCN0505 5
107 IF (#66).80;0,) GO TO 180	ELCN8807 12
100 IF (REF); GY; 6,) CALW BLADFY (EGSEUFFL)	ELCN0208 15
109 100 CONTINUE	ELCH6209 18
110 RETURN	#LCN0110 20
TIT 7 FORMAY ESABPAVLDAD BAY GRABBURD NOOM STATIONS 364.	BICHARII 21
111 7 FORMAY (34MPAYLOAD NOT GOODBUILD BEOM STATION ST	ELCN8511 21
111 7 FORMAY (34MPAYLDAD MOY GOSEBUED BECH STATION 63A6) 122 1 SOUPOR GIVEN ELEVATION CONSTRAINT) 113 END	ELCN0311 21 ELCN0312 ELCN0313 21
111 7 FORMAY (SAMPAYLOAD NOT GESTERVED BROW STATION 6456)	ELCN0311 21
111 7 FORMAY (34MPAYLDAD NOT GOSEBURD BROM STATION 3A61 122 1 JOHNOR GIVEN ELEVATION CONSTRAINT) 113 END 2867 WERDS OF MEMORY OSED BY THIS COMPILETION	ELCN0313 21 ELCN0313 21
111 7 FORMAY (34MPAYLOAD NOT GOSEBURD BRON STATION 3A6) 122 1 SOUPOR GIVEN ELEVATION CONSTRAINT) 113 SHD 2867 WORDS OF MEMORY OSED BY THIS BOMPSLATION 67900 03 09-85-72 32.656 ELEVATION CONSEASOY 28887 SOUPORT SELEVATION CONSEASOY 28888 SOUPORT SELEVATION CONSEASOY	ELCN0313 21 ELCN0313 21
111 7 FORMAY (34MPAYLOAD NOT GOSEBURD BRON STATION 346) 122 1 SOUPOR GIVEN ELEVATION CONSTRAINT) 113 SHD 2867 WORDS OF MEMORY OSED BY THIS BOMPSLATION 67900 01 09-89-72 11-656 ELEVATION CONSTRAINT ESSECCEMENT OF BLUNSHOOF SECTION BUSINESS BUSINESS OF SECTION CONSTRAINT	ELCN0313 21 ELCN0313 21
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111 7 FORMAY (34MPAYLOAD MOT GOSESUED BROM STATION(3A6) 112 1 38UPOR GIVEN ELEVATION CONSTRAINT) 113 END 28847 WERDS OF MEMORY OSED BY THIS COMPLETION 67900 OS 00-85-72 32.654 ELEVATION CONSTRAINT EDSCRIPTION CONSTRAINT FROM GREAK 230 COMMON LENGTH 5 V SMUNT SITS 3	ELCN0313 21 ELCN0313 21
111 7 FORMAY (34MPAYLOAD NOT GOSEBURD BRON STATION(346) 122 1 30MPOR GIVEN ELEVATION CONSTRAINT) 113 SHD 2867 WORDS OF MEMORY OSED BY THIS BOMPSLETION 67900 01 09-85-72 21.650 ELEVATION CONSEASEY  ESSECCEMENTINE BURNSROOM; BECAUSE BURNSROOM; BY  PROBEN GREAK 230 COMMON LENSTH 8	ELCN0313 21 ELCN0313 21
111 7 FORMAY (34MPAYLOAD MOT GOSESUED BROM STATION(3A6) 112 1 38UPOR GIVEN ELEVATION CONSTRAINT) 113 END 28847 WERDS OF MEMORY OSED BY THIS COMPLETION 67900 OS 00-85-72 32.654 ELEVATION CONSTRAINT EDSCRIPTION CONSTRAINT FROM GREAK 230 COMMON LENGTH 5 V SMUNT SITS 3	ELCN0313 21 ELCN0313 21
111 7 FORMAY (34MPAYLOAD NOT GROUND BON STATION 346) 122 1 30MPON GIVEN ELEVATION CONSTRAINT) 113 SHD  2867 HBRDS OF MEMORY OSED BY THIS BOMPTLATION 67908 05 09-85-72 52.654 ELEVATION CONSTRAINT  ESSECTION SHORE STATE  PROSERVE STATE  PRO	ELCN0313 21 ELCN0313 21
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111 7 FORMAY (34MPAYLOAD MOY GREENED BEOM STAY) 0045361 113 SHD  2867 MBRDS OF HEHORY OSED BY YUIS BOMPILATION  47908 US 05-85-72 11.856 ELEVATION CONSERSED  RREFAGE  PROGRAM SREAK 289  COMMSN LENGTH 8  COMMSN LENGTH 8  PRIMARY SYNDEP ENTRY  BLEEK LENGTH  2 SUMMS 15 5  4 SUMMS 15 5  4 SUMMS 15 5  5 SUMMS 15 5  5 SUMMS 15 5  6 SUMMS 15 5  5 SUMMS 15 5  6 SUMMS 15 5  6 SUMMS 15 5  6 SUMMS 15 5  7 COS 15 ANSW	ELCN0313 21 ELCN0313 21
111 7 FORMAY (34MPAYLOAD MOY GROMERWARD)  123 MAD  28867 MBRDS OF HEHORY OSED BY TWIS COMPTLATION  28867 MBRDS OF HEHORY OSED BY TWIS COMPTLATION  47908 05 09-85-72 52-656 ELEVATION COMBRAINT  28867 MBRDS OF HEHORY OSED BY TWIS COMPTLATION  47908 05 09-85-72 52-656 ELEVATION COMBRAINT  28569-78568  PROMERAN BREAK 258  COMMON LENGTH 5  V CHUNT SITS 5  PRIMARY SYNDEP ENTRY  5ECONDERY SYNDEP ENTRY  1 SUREL 58  3 SUREL 58  5 S	ELCN0313 21 ELCN0313 21
111 7 FORMAY (S4MPAYLOAD MOY GBSENUD BEOM STATION SAGE  123 1 398FOR GIVEN ELEVATION COMETALITY  28887 MBRDS OF MEMORY OSED BY TWIS BOMPALATION  67908 02 05-85-72 12.658 ELEVATION COMBERATOR  825567 MBRDS OF MEMORY OSED BY TWIS BOMPALATION  67908 02 05-85-72 12.658 ELEVATION COMBERATOR  825567 MBRDS OF MEMORY OSED BY TWIS BOMPALATION  67908 02 05-85-72 12.658 ELEVATION COMBERATOR  825567 MBRDS OF MEMORY OSED BY TWIS BOMPALATION  825567 MBRDS OF MEMORY OSED BY TWIS BURNERS BURNERS BURNERS BURNERS BURNERS  976684 BURNERS BYREP  1 SURPL 18 1 SURPL	ELCN0313 21 ELCN0313 21
111 7 FORMAY (34MPAYLOAD NOT GOOGRAPASHY)  123	ELCN0313 21 ELCN0313 21

996 01 01	7-85-72 11,555 BLOUD DRIFT ON BLEVATION CONSTRAINT	
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1	CRLAD CLOUD DRIFT ON BLEVATION BENSYRAINT	ELVD686
2	「中の日の中でものかならのないとなったちのの名前日出谷の人はお後、九八八八八十八十八十八十八十八十八十八十八十八十八十八十八十八十八十八十八十八	EL VD680
3	C C C C C C C C C C C C C C C C C C C	EL VD680
5	· ·	ELVDeso
6	Chopsocathed Aylfobs Assessed Ob 85%87%10	EL VD866
7	Charrage engliscs from the co	FLYDOSO
-	CB+F++6F LANGUAGE-FONTRAN IV	FLADS80
10	CBOBOOOQNABHINEOGN GOS	EL VD881
91		ELVDes1
13	C AN DEARCHINE IN AME REMARATION BOARDANT ABEDS DOLLING LAE	ELVD881
14	C REQUIRED TRACKING REREOD?	ELVD081
15	C	ELVD681
17	C THE LONGITUDINAL DIFFERENCE BETWEEN THE TRACKING STATIOS TO THE	EL VDest
18	C THE LONGITUDINAL DIFFERENCE DETWEEN THE FEACKING STATION TO THE	ELVD081
19	C STETION AS DEFINED IN SUBREUTINE ELCHSR TO FOUND, THERE ERE THO	EL VD001
50	C POSNYS ON THE EDGE OF THES RESEDON AT THE LATITUDE OF THE GLOUD	
31	C WHICH ARE AT AN ARG DISTANCE MULL TO THE ARC MADIUS OF THIS C RESTONTED AN EASTERN DRIFT OF THE ELOUD AFTER RELEASE THE	ELVD682
13	C POERY GEST OF THE TRECKING STEXION IS REGULARED, AND FOR THE	ELVD662
24	C WESTERLY DRIFT THE POINT MEST MF THE TRACKING STATION IS	ELVD082
25	C RESURRESTANTE PROSESM NOW 25 TO FEND SUT SON LONG IN WILL TAKE	ELVD682
50	C FOR THE CLOUD TO DRIPT TO THIS POINT ON THE EDGE OF THE DEPINES	ELVD982
27 ¥8	C RENTUR; TF IT IS UNORGER THEN SHE STYEN THEORY HO PEGIOD THEN THE C EREOR MESSAGE (FORMEY 1046) IF PRINTED.	
29	C ERBOR MESSAGE (FORMEY 1086) SE PRENTED;	ELADS85
30	CposeesegNANA	ELVD083
31		ELVD063
32	C GOSALF -COSSOS OF THE COC MADEUS OF THE DEFINED SESION	EL VDess
23	C 1 STRAFRENG STATERN SUMBER	ELVDee3
85		ELVD963
36	C SINCLY -BENE OF RELEASE POINTYS GEOCENTRES LATETODE	ELVD003
37	PARALLE SACONE AF NEL COMP ASSURAC ACAMELICOSO LACADADO	EL VD083
26	C COUCLY -808(NB OF HELERSE POINT S ANOCHNIRE LATETODE	ELVD083
10	C HAME (3,12) - MANE OF TRACKERS STATIONS USED	ELVD884
41		ELVD084
42	C MLAND(33) -LONGIVUDE OF PUE VANCKING STATION (SADIASS)	ELVD884
64 64	C SINSLITERS -SENE OF TRANSTING STATION - GEORGINARIE L'AVITURE	ELVD894
49	C. sedueriffl sabum on the Subbling diffit chas de Coremistre Availone	ELVD084
46	C COESLITEZ -COSSNE OF TRABETNE STATION+S GEOGENTRIC CATITUDE	EL VD884
47	8	ELVD084
48	C R(4) - SECUD DRIET RATE SHADZAMS/48)	EL VD884
58	C R(F) MENSHUM TRACKING PERIOD AFTER RELEASE (HEURS)	ELVD884
		EL VD889
24	C	&L VD085
13	GR.BS.S.S.S.D.AMANA.	EL VD 8 8 5
54	C NAME OF TRACKING STATEONS GOLD	EL VDOGS
36	C HARRISTEE STREET BY THARTING BYATEURS USED	ELVD885
97	C T -TEMB CONSTREINT IS HET FOR GIVEN DRIFT RATE (HR	
50	C .	ELVDOGS
39	C R(F) -VALUE OF T TP TOLT TREUT OF R(T)-EN HOURS	
60	Cpeseeseque; RIC: 18NSo	EL ADSSe
ii	C THE ORIET NATE OF THE GLEND IS ABSUMED TO ME REFLECTED IN A	SLVDess

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CHANGE BULY OF LONGITUDE VALUE FOR THE CLOUDIS POSITION AND IS ELVDOOGS ABBUMED TO BE CONSTART FOR THE EXPERIMENTAL PERIOD: ELVDOOGS THE ELVDOOGS E
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                                            SUBROUTINE ELVERT (SOSALF, I)
COMMON/BLKB1/SINCLT, GOSCLT, SINGLNY COSCLN, RVC
COMMON/BLKB3/ PHIP.RLAMBA
        74
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                                                                                                                                                                                                                            ELVD6875
        76
                                                                                                                                                                                                                           ELVD6876
        77
                                             COMMON PROPERTY (8)
                                                                                                                                                                                                                            ELVD8877
                                            COMMON/OLKS PNAME(3012)0 PH1(22) LP-904(12)0 ALT(12) MOV8(22) COMMON/OLKS) SINSLA(22) COSELN(12) AT (12) MOV8(22)
        78
                                                                                                                                                                                                                            ELVD0878
        79
                                                                                                                                                                                                                            ELVD0879
        80
                                                                                                                                                                                                                           ELVDesso
ELVDessi
                                            COMMONDECKESPRPHI(EZ) PRLAMB(82)
        61
                                             REAL CAMEDS
        62
                                                                                                                                                                                                                            ELVD0882
        83
                                             SEAF FOAS
                                                                                                                                                                                                                            ELVDOSSS
                            AREGUSTANISGRY(178-X0X)/8)
C COMPUTE THE DIFFERENCE IN LONGIXUDE REDN THE SENTER OF STATIONALL TO
C THE EDGE OF THE PATORAGEN BEGINS THE SENTER OF STATIONALL DUAMPES ARECUSE(COSELFOBINSCY) SENTECTY) / $8965L7(1)&COSCUT))
                                                                                                                                                                                                                           ELVD6884
        84
                                                                                                                                                                                                                           ELVDees5
        89
                                                                                                                                                                                                                            ELVDesa6
        89
                                                                                                                                                                                                                           ELVDaga7
        87
                             C FIND THE LONGTYUBE AT THIS POINT
        88
                                                                                                                                                                                                                            EL VD8888
                             C IF THE CLOUB IS BRIFTING HEEVERLY FIND THE CONCETUDE WEST OF STATION (SELVDOSS) SF (RESTILE), 1 LONG SELAMBERS - DEARDS ELVDOSSO
        89
        80
                             C IF THE CUSUD IS BRIFTING EASTERLY FIRS THE LONGITUDE EAST OF STATION (IELVDOSOL IF (RESTIGY, ) LONG - BLAMBET) & DLAMDA ELVDOSOL TO DEIFT TO ELVDOSOL TAKE THE SLOUD TO DEIFT TO ELVDOSOL
        91
        92
        93
                                                                                                                                                                                                                            ELVD8894
        94
                                    AMIZ COMMIANDS
                             T SAWS! (CONS-RLEMBS) /R(S) ELVD895
C IF Y $9 LOSS THAS THE REQUESTING TRACKING PERIOD THEM PRINT STATEMENT ELVD896
IF (Y,GE;RET) GO YG 16
WATTE (SE2868) (NAME(JE59-J62-3) FT ELVD898
        95
        96
        97
        98
                                                                                                                                                                                                                                                      12
                                                                                                                                                                                                                            ELVD0099
                                                                                                                                                                                                                                                      18
                                     TT MEANWE
        99
                                SOSS FORMAY (SIRCLOUD DREFT BAUSES ELEVATION CONSTRAINT TO FALL BELOW
                                                                                                                                                                                                                         IELVDesoo
                                                                                                                                                                                                                                                      19
      100
                                           IMPUT BONSTRAINT AT STETJON, SAS, PETZPITHHOURS AFTER RELEASE!
                                                                                                                                                                                                                           EL VD0101
      101
                                                                                                                                                                                                                                                      19
                                                                                                                                                                                                                            EL VD6102
      102
              28795 WORDS OF MEMORE USED BY THIS COMPILATION
67906 01 09-25-72 11.646
                                                                                      CLOUD BRIFT ON ELEGATION CONSTRAINT
                                                                                                    DB&BBBCGSGCBCBACUTINE ELVDFGsagesasfagesassasasasas
                 PREPASE
          PRUBRAH BREAK
                                                   179
          COMMON LENGTH
          A CERMA SIA2
     PRINCES SYNDEP BUTRY
            FPABLA
SECONDUBA SANDEL BULKA
                                            CHNETH
             日門西島民
            BLASS
             BPMB2
            BLM61
            BPH
     5
            BLAS
                                                       76
           BPMB3
                                                       85
            SYMREF
     7 本學資育
```

10 SGRY

11 , FERV.
12 . FT. S.L.,
13 . FERD.
179 \$8 THE NEXT AVAILABLE LOCATION.
6HAP VERBSON/BSERNELY DETER JHPA 090171/092971 JHES 0\$6171/092971 JHPS 096171/092971
THERE WERE NO MARMENG FLARS IN THE ABOVE 4838HBLU
60 19298 HORDS OF DEHORY HERE USED BY GHAP FOR THES 858ERBLY.

	DESUGNACO SUNNELLA VILLE OCOCOSOSOSOSOSOSOS	
7	Caeseceseasasasasasas anuseas suusen ting taseseeseseseseseseseseseseseseseseseses	A I A B
3	C C	AYR
5	Casassassyary of Bocumention carassassassassassassassassassassassas	A I A B
6	CBOSCOCONASA SALLOPS VERSION OF SEASIATO	Air
8	Cpesseeastanguage-Fortran IV	ATR
V	· ·	ATE
0	Cassesses Maniae of sale	AIR
11	Coosses purpose.	AIR
14	C TO CALCOUATE THE AIRGLOW ESIGNTHESS AS DEFINED FOR THE BIS	AIR
5	C DMGJEGA!	AIR
26	Change and all the state of the	AIR
18	C THES SUBROUTINE SAUCULATES A VECTOR SETHERN THE GEOCENTRIS C COSRDINATES OF THE STATION AND THE RELEASE POINT, THE ANGLE	AIR
P	C BETWEEN THIS VECTOR AND THE SENITH OF THE STATION IS COMPUTED.	AIR
20	C FROM THES ANGLE THE ARRECOU STRUCTURES IS COMPUTED; C TY ALSO USES SUBROUTINE SPAIN TO COMPUTE THE ARRECOU BREGUTNES	AIA
2.5	C AY DISCRETE POINTS PROM BASH TRANSING STATION TO THE SLOUDIS	AI
3	C POSITION AFTER RELEASE:	AIF
5	CResersalMANAS	A
26 27	C PART - MEASURE & PENSAGENY AF BELLIAM BALLY AFEIL.	410
28	C GGEX -GEOCENTRIE & CHMPENENT OF RELEASE POINT LERUS	AIF
9	C CARY -GEORENTRIE & COMPONENT OF BELEASE POINT BERUS	AIR
10	C COST -ORDERTHIE Z GRMPGNENT OF RELEASE POINT (ERU)	AIF
3.5	· ·	AII
5 3 5 4	C SESY(\$2) -GEOGERTRIE & COMPONENT OF TRACKING STATION (ERC	ILA
19	C SEST(12) -GEOGRAPHE & GENERAL OF TRACKING STATION (ER	1941
3 6 3 7	C SGGZ[{2}] -GGOGERTRIE Z GOMPONENT OF TRACKING STATION (28)	AIR
8	· ·	41
3 9 4 0	C PH\$(18) -GEODEVIC LETITUDE OF XRACRING SYATION (SEC)	ATE
45	C SINSUNCEST - SING OF TRACKING STATIONTS CANCITUDE	ATI
42	C COSSENTERY -CORING OF TRANSTING STATION+S EDNGITUDE	AIF
84	C	ATI
45	C NTT) -MENTHUM YBERKIRG MERIBO AFTER RELEASE (HBURS)	ATI
46 47	C NS -THE NUMBER OF STATIONS USED IN THE REDGERM	AII
48	· ·	AI
4 9 5 0	C NOSY12) -AN ARRAY CONTAINING THE SYSTICM NUMBERS OSEC	AII
51	C DYR - GONYERSION RACTOR PROF DEGREES TO RADIANS	411
33		AII
54	Cassess Bnabhas	AII
5	C UN -GROKENTRIE & KENPENENT OF VESTER FROM STATEON 1	ATI
95 97	C WE -GEOGRAPHE S GRAPHINENS OF VEGYOR FROM STATION 1 -RELEASE POINT TURE!	AII
58	C	AI
50	C WY -GROSENTRIE T GENPONENT OF THETON TO -MALEASE PRINT TERMS	ALLAS

61	C WE -GEOGENTRIE Z COMPONENT OF VECTOR FROM STATION TO	AIRG0661
63	C WE -GEOCENTRIC Z COMPONENT OF VECTOR FROM STATION TO -MELGASE POINT TERMS	AIRG8863
64	C. augresian Later tand	A1869864
65	C USE -K-COMPONENT OF ONLY VECTOR IN BIRECTION OF	AIRG8865
86	C -TRACKING STATION S ZENITH	AIRG0966
67		AIRGOOS7
88	C USV -V-COMPONENT OF ONST VECTOR IN DIRECTION OF	AIRG8868
69	OTRACHING STATION'S ZENITH	AIRG0969
78	C USZ -Z-COMPONENT OF CHIP VECTOR IN BIRECTION OF	AIRG8870
72	C USZ -z-commonent of CNAT VECTOR IN BIRECTION OF COMMONENT OF CNAT SENITH	A1RG0871 A1RG0872
73	C attraction Signification feating	41RG0873
78	C BARIZITS -AIRGEON BRIGHTHESE FROM A SIVEN STATION TO THE	AIRG0874
75	C -GIVEN POSTYTON OF THE CLOUD (RAYLEIGHS)	A19G8875
76		AIRG8876
77	C C(82) F) - COMPRICIENT DESENDENT UPON THE RELATIVE COSITION	
78	C -OF THE TRACKING STATION TO THE CLOUD AND USED TO	AIRG0878
80	C	AIRGOOTP
82	C JEUD -NUMBER OF BISESTY VALUES STORED FOR	AIRGOSOL
82	C -PEPPERIMENTAL PREISO DATA	AIRGe082
83	C C	AIRGOOSS
84	Coosee of the strict in So	AIRG0884
85	C UP TO THE VE TRACKING STATIONS CAN SE USED AND UP TO SEREN	AIRG0085
86	DISCREYE VALUES FOR AIRGUOU SEIGHTNESS CAN BE COMPUTED FOR EACH	AIRGOSS
87	C TRACTING STATION.	AIRGe887
88	CB66666 # Jeprograms Requireb-	AIRGOPS
90	C FAIR	AIRGE 389
91		AIRG8891
92	CBOBBOOBBHENARMO	41966892
82	C BALY ELEVEN TRACKING STATIONS CAN BE USED 25 ONE OF THESE	AIRG0093
94	C STATIONS IS A MOVING OR RIGCHART STATIONS	AIRG8894
95		A 1 RG 0 895
96	CHOCOCOGEND OF BOSUMENTATION CARDSCOORSCOORSCOORSCOORSCOORSCOORS	AIRG0096
98	SUBROUTINE AIRGLO	AIRG8897
99	CONNOT/SLKEZ/ CSCX, CGCZ	AIRG0898 AIRG0899
100	COMMON/ULKE17R(8)	AIRGOSOO
101	COMMONIACED (NS. MOS(12)	AIRG0101
105	CONHODING THE (3012) + PHY (82) & LAMBOB (12) + ALT (12) + MOVE (22)	AIRG6162
103	COMMON/BUKB1/ SINSLV(18); CHSELT(12); SINSLU(12); GOSSLN(12).	AIRG8103
104	1 COMMON/WLK#27 SECX(62) # SECX(52) # SECZ(52)	AIRG0104
106	COMMON/BLKE JOTE, REDI HTR, HALFET, REH, AUS DELTA: 4) & ERMI DGHA	AIRGe205
107	COMMON/85KJ /WX(1200 WV(12) WZ(83) P BAS12,7) C(12,7), JESD	AIRG0106
188	COMMON/SCKN4) USX, USY, USZ	AIRGO108
188	REAL CAMDAR, CAMDAS, LAMEDG, LAMEDA	AIRG8809
110	DOUBLE PRECISION DOR. RYD. MYR. WALPPI	AIRGeato
111	C CALCULAYE VALUE FOR JEND	AIRGOALL
112	JEND 6 1,5 6 2,00R(7)	AIRG0112
113	DO 100 Le13NS I = NOS 2L3	AIRG6313
115	C COMPUTE GERPONENTS OF W VECTOR AND 178 MAGNETUDE	AIRG0214
116	MX(1) # CGEN-2GCX(4)	AIRGes15
117	WALLE CONSOCALLE	A1866817
116	HI(1) * EGEZ-SGEZ(1)	AIRGe118
119	WXVZ a SQRT/WX(1)agys1)awyt1)aw7t1)awZt1)awZ(1))	AIRG0119
119	C COMPUTE UNIT VECTOR IN DIRECTION OF STATION ZENETH	AIRG0120
757	TEMP & COSEPHICES & DYRS	AIRG0321
155	USK SYEMP & COSSLN(1)	AIRG0922
123	UBY a YEMR o SINSLR(1) UBZ a SINSPRICT, a Deri	AIRG0223
125	C CALCULATE AIRGLOW BRIGHTNESS FOR STATION(1)	AIRG0124
126	SPEE SHEAT THE SHEAT OF STORAGES OF STALLING (1)	AIRG0125 AIRG0126
127	Ction 66, Yanoshez	A19G0127
128	BA(108) 6270956904140C11.1) 498C2	AIRGOAZE
120	C CALL SPAIR UNLY IF MEGUERED TO EALCHLATE WINDOW TIMES FOR A TRACKING	AIRGO129
	c menigo,	AIRG6230
223	IF (JEND, GY, 1) CALL ERASE (%)	AIRG0831
125	100 CONVINUE	AIRG0435
133	AU COUVISOR	A1860333

134	END		AIRG0134 21 AIRG0135 22
		D BY TWIS COMPILATION	-1.40830 66
67906 03 09	F-15-72 \$2,696	AIRGLOW GALCOLATIONS	
		SESSOCIANO BORROUTINE APRELO cocescocace	
PREF	rage	essential Townson Survey	
CONMON COMMON A SEAM	CBNSTH 8		
PRIMERY S	SYNDEF ENTRY		
VINCE			2.2
SECONDARY S	SYNDEF ENTRY		
BPBEK	LENGTH		
2 8FM85	11		
3 BLRD	134		
9 BF#85	74		
7 BLMF 10 BLMJ 11 BLMN4	315		
SAMME			
THERE WERE	HE NEXT AVAILABLE LE NASSEMBLY DATES NO WARNING FLAS	BCAYION: JMPA 89017E/853531 JMRB 096171/052571 JMP BS IN THE ABOVE ASSEMBLY USED BY GMAP FOR THES ASSEMBLY!	C 050171/058571
67906 n1 01	9-25-72 11,702 1	AIMSLOW DURING TRACKING PERSOD	
		esessood SUBFBUTTNE EPARS esessoones	
1 2 3 4 5 6 7	CBPS1 AIRGEOF	N DURING TRACKING PERIOD	EPAIDED1
4	- X	BOCUMENTATION CARBS	EPA10003
6		SPS VERSION OF \$2401470	EPA10805 EPA10806 EPA10807
8	Cassesses LANGUEGES	FORTRAN IV	EPAIGEGS
10	CoossossHagHing-GE	625	EPA10910 EPA10811
12 13 14	Coossos Purposeo	THE THE DIFFERENT AIRGLOW BRIGHTNESS FOR EACH THE TE TIME INTERVAL BURGING THE DESERGED EXPERIMENT TO	EPAIGE12
15	C C C C C C C C C C C C C C C C C C C	THE PARTY OF THE PARTY IN THE PROPERTY OF THE PARTY IS	EPA10815 EPA10816
17	C THE GEORES	NTRIC MOVIZ-COMBONIENTS OF THE VESTOR PHOM EARTH SECOND IS RODIFIED AT 38 MINUTE INGREHENTS TO INCERR	ENTEREPAIOS17 SRATEEPAIOS18
19	C SLOUDITHE	ION AFTER RELEASE DUE TO THE EAST/WEST DRIFT OF THE CLOUD DRIFT IS ASSUMED TO BE CORSTANT AND IN THE	E EPAIGE19
57	C BINECTION	AND IS ASSUMED TO BE SOLELY A CHANGE IN LONGITURE	EPA 1 9 0 2 1

22 C ANGLE; 23 C POSITIO	THE X. V. Z-GOMPONENTS OF THE VESTOR FROM STATION(I) TO THE	
	ON BF THE BLOUD AT DISCRETE POINTS DURING THE MENTAL PERIOD IS CALCULATEDITHE AIRCLOW BRIGHTNESS AND	EPA10823 EPA10824
25 C 160 CO	ERFICIENT VALUES ARE FOUND AS IN SUBROUTINE AIRGLE FOR	EPA10025
	POINTS,	EPAIO826
50 C THECK!	EQATION CONSTRAINT FOR THE LAST POSITION OF THE MOVING NG STATION IS EMECKED UTING THE ZENITH ANGLESSESS!	EPA10827 EPA10828
29 C		EPAID929
30 Cp-pe9-1MRUT9		EPA10030
25 c 1		EPAI0831 EPAI0832
33 C		EPA10033
34 C Jand		EPA10834 EPA10835
36 C		EPAI 0836
37 C R(6)		EPAI0837
39 C 555X		EPA10838 EPA10839
40 C		EPAI0840
45 C C@#A	-GEOGENTRIC & CEMPENENT OF BELEASE POINT SERUS	EPA10041 EPA10042
43 C COSZ	-GEOGENTRIC & GRAPHNENT OF CELLASE POINT LERUS	EPA10843
44 C SEBX(4)	AL ACCOUNTS A SEMENTING OF SELECTION OF STATE	EPA10844
46 C	2) =GEOGENTRIE % GOMPONENT OF TRACKING STATION (ERU)	EPAI 3845 EPAI 3846
47 C SGRY11		EPAID847
88 C \$882(1	2} -GEOCENTRIE 2 COMPONENT OF TRACKING STATION (ERU)	EPAISO48
50 C		EPAI 0050
51 C USX		EPAIO051
53 C		EPA10852 Epa10853
34 C US#	-V-COMPONENT OF UNIT VECTOR IN BIRECTION OF	EPAID054
55 C 96 C		EPA10055 EPA10056
57 C USZ	-Z-COMPONENT OF UNIT VECTOR IN DIRECTION OF	EPA16857
58 C 59 C		EPAISSS
60 C PLATET		EPA10859 EPA10860
61 C	"EXPERIMENTAL PREIGD (BEG)	EPAI0861
63 C SINLON	(7) -SINE OF AIRCRAFT LONGSTUDE DURING EXPERIMENTAL	EPA10862
64 C	-PERIOD	EPAIDS64
65 C COSLON	(T) -COSING OF ASRCRAFY LONGITUDE DURING EXPERIMENTAL	EPA10865
67 C		EPA10867
68 C AGEX (7		EPAIDS68
70 C		EPAIOS69 Epaios70
71 6		EPA16871
72 C A669(9		EPAIRO72
74 C		EPA10873 EPA10874
75 C ASEZ (7		EPA10875
- <del>77</del> E	DURING EXECTIONS FERIOD (CRU)	EPA10876 EPA10877
78 C MOVERS	2) -CODE NUMBER TO DETERMINE 12 STATION COORDINATES	EPAISS78
79 C 80 C		EPA10879 EPA10880
81 C		EPA10861
82 C DYR		EPA10082
84 C	-CONVERSION KASTOR PROM DESERS TO RADIANS	EPA10003 EPA10004
85 C		EPAISES5
85 Ceeseaa QUYRUY		EPA 1 0 0 8 6 EPA 1 0 0 8 7
88 C WPX(18	- 71 - VALUE OF GEGGETTRIC X COMPONENT OF VECTOR FROM	EPAISESS
89 C	-STATION TO GLOTD AT DISCRETE TIMES AFTER RELEASE	EPAISONS
VI C WPV(II	• T) -VALUE OF GEOCESTRES V COMPONENT OF VECTOR FROM	EPA 18890 EPA 18891
93 C	-STATION TO GLOTD BY DISERBYR TIMES AFTER RELEASE	EPA 1 8892
94 C W#2(18		EPA18893 EPA18894
	THE COURSE OF BRANCH AND A SAME AND A SECTION OF SECTIO	

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95
                                                                                                      -STATION TO ELOUD AT DISCRETE TIMES AFTER RELEASEDATIONS
   96
                                                                                                      "ASRGLOW BEIGHTUSS FROM A GIVEN STATION TO THE EPAIDED?
   97
                                                         BA41217}
98
                                                                                                      -GIVER POSTYTON OF THE CLOUD (RAYLEIGHS)
                                                                                                                                                                                                                                                                    EPAISESS
  99
                            C
100
                                                                                                      -CORFFICIENT DESENDENT UPON THE RELATIVE COSITIONEPAIDSON
                                                         C482.7)
                                                                                                      -OF THE TRACKING STATION TO THE CLOUD AND USED TOSPALGADA
101
                                                                                                      SOLVE FOR THE TOTAL SKY HABKGROUND BRIGHTNESS EPAIGEOZ
 102
103
                                                                                                                                                                                                                                                                    EPAI0203
                             CHOSTO STREET TRACKING STATIONS CAN BE USED AND UP TO SETER
104
                                                                                                                                                                                                                                                                    EPAIS184
105
                                                                                                                                                                                                                                                                    EPAIDAD5
                            C DISCREVE VALUES FOR AIRGION BRIGHTNESS CAN BE COMPUTED FOR EACHEPAIGSOO
104
                                                 TREETING STATION
187
109
                            CS-880-885USPRGGRAMS REQUIRED-
109
                                                                                                                                                                                                                                                                    EPAI 8209
110
                                                                                                                                                                                                                                                                    EPAIO210
111
                            CONSTRUCTIONS IS AN AIRCRAPT.
115
113
                                                                                                                                                                                                                                                                   EPAI 0213
284
113
        COMMONICATION DATE OF SOCIAL CORRESPONDED TO SOCIAL STREET OF SOCIAL SOC
                            116
117
118
119
151
155
123
 124
 133
126
127
128
 130
 131
 132
            C CALCULATE THE EMANGE IN THE CLOUD'S LONGITUDE FOR 'T' HOURS AFTER C BELEASE AND CALBULATE ITS SINE AND ROSSNE.
133
                                                                                                                                                                                                                                                                    EP410233
134
                                                                                                                                                                                                                                                                   EPA10234
                                                                   * 0.500(TJ-1.)
135
                                                                                                                                                                                                                                                                   EFAI0135
 136
                            SH = SIN(R(6) + 7) EPAI0337
C DETERMINE THE 2.7. Z-COMPONENTS OF THE VECTOR FROM GARTH CENTER TO THE EPAI0238
C SLOUD IT - MOURS AFTER RELEASE, EPAI0239
 137
 138
139
 140
                                                CECXP . (CGCH-CS)-(EGCY-SN)
                                                                                                                                                                                                                                                                    EPAIGS40
                           COCYP & (COCECUS) of COCYPOSY

COCYP & (COCCECUS) of COCYPOSY

COCYP & COCCECUS OF COCCECUS

IF (MEYELL) EQ. 0) GC TO 11

C FIND THE UNIT RECTOR IN THE DIRECTION OF THE AIRCRAFT OF POSITION OF PAIO 444

C HOURS INVO TRECKING PERIOD.
                                                                                                                                                  141
 142
 143
164
                                                VENP ECOSEPLAT(J) OBTR)
146
                                                                                                                                                                                                                                                                    EPA10246
                                                                    SARME & COSTON(1)
147
                                                                                                                                                                                                                                                                    EPAIOS47
                                                                                                                                                                                                                                                                                                    13
 148
                                                                    (L) NO JUSE . SHEAR
                                                                                                                                                                                                                                                                    EPA10346
                           USZ STNIPCAT(J) STR)

C FIND THE VECTOR FROM THE AIRCRARY TO THE CLOUD ** HOURS AFTER ROLEASEPAIGSSO

EPAIGSS1
 149
 150
                                                WFX(I+J) OCGCYP -AGGX+J)
WRY(I+J) OCGCYP -AGGY(J)
WPZ(I+J) OCGCYP -AGGZ(J)
GO TO 12
191
 152
                                                                                                                                                                                                                                                                    EPAI0352
                                                                                                                                                                                                                                                                                                    17
153
                                                                                                                                                                                                                                                                    EPAIGAS3
                                                                                                                                                                                                                                                                                                    18
194
                            C FIND THE TESTOR PROM STATION(1) TO THE SCOUP OF HOURS AFTER RELEASE EPAIGESS 11 HFX(10) OF SECTION OF SECTIO
155
                                                                                                                                                                                                                                                                                                    20
 157
198
                                                                                                                                                                                                                                                                                                    22
159
166
                                               TAXAR & (Collade (Collada
101
                                                                                                                                                                                                                                                                                                    24
                                                                                                                                                                                                                                                                   EPAIOS61
                                                ZAXdes o (for) 4864 (for) o SbXAS
205
                                                WPY(101) 68PY(101) 0 WPRYZ

WPZ(101) 8WPZ(101) 0 WPRYZ

WPZ(101) 8WPZ(101) 0 WPRYZ

YME SIRBLEW BRIGHYRESS AND 48 VALUE FOR THE ASOVE VECTOR
                                                                                                                                                                                                                                                                    EPAI 9942
                                                                                                                                                                                                                                                                                                    29
163
                                                                                                                                                                                                                                                                                                    20
                             C FIND THE
                                   SEEZ 51.07 (USXOMPH(17.) . USVOTRV$[,]) . USZOMPZ(15.))
C(10.) 677300SEC7
100 BA(10.) 5270950404160 C(1...) 4 SEEZ
165
                                                                                                                                                                                                                                                                   EPA10865
                                                                                                                                                                                                                                                                                                    27
 166
                                                                                                                                                                                                                                                                    EP410866
EP410167
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IF (MOVE(1):60.0) ROTURN

C DETERMINE IF ELEVATION CONSTRAINT IS NEV FOR THE AIRCRAFT AT THE END

C OF THE TRACKING PERIOD
     168
                                                                                                                                                                                                     EPAIGA68
     169
                                                                                                                                                                                                    EPAIOS69
                                                                                                                                                                                                     EPAID270
                                         COBBEVESORT(SECZ-SEGZ -4.0)135CZ
      171
                                                                                                                                                                                                     EGAIGS71
     172
                                         IF (CBSBET;GT, (COS(R(2)))) MRITE (0;1080)
                                                                                                                                                                                                     EPAIG172
                                                                                                                                                                                                                             35
      173
                                 20 CONTIBUE
                                                                                                                                                                                                     EPAI0173
                                                                                                                                                                                                                            39
                                         RETURN
     174
                                                                                                                                                                                                     EPAIG174
                                                                                                                                                                                                                             40
                             1 STATION AT END OF TRACKING PERISDONGSOOGOOGOOT//) EPAIO276
     179
     176
     177
                                                                                                                                                                                                                            41
                                                                                                                                                                                                     EPAIGS77
            23935 WERDS OF MEMORY OSED BY THIS COMPILATION
67908 03 09-85-72 22,718 AIRGLAU DURING THACKING BERIOD
                                                                                           essespans SOUROUTINE BRAIR secopessopessossessesses
 PREFAGE
       PROSERAN BREAK 648
    COMMON CENSTH
         A CHANA BIAR
 PRINCES SYNDER SHTRY
           EMESH
  SECONDERA SANDEL ENAKA
            BLBEK
                                         LENGTH
             BPMAS
             BENES
                                                   20
      3
           BLMB
                                                 120
                                                   44
            BLREZ
      5
             BLN84
                                                   98
      6
                                                   46
             B 6 4 8 5
             BLHES
   - 7
                                                   29
             日間の
    10
                                                   36
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UNIVERSAL TIME FOR ANY JULIAN DATE AFTER 2415020.0 OR

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	JANUARY 0,1906	71ME0011
2 C		FIME0812
3 C		FIMEOS14
5 C		114E0015
6 C	CALLING SECUENCE GMSIDT _ TIME!DAYNOM;	71ME0016 71ME0017
8 6		FIMEOB18
0 0		71ME0819 71ME0820
C		PIME8821
5 C	OUTPUTS	TIME0022
C	TIME (DAYNUM) = GREENWICH MEAN SIDEREAL TIME AT ZERO HOURS!	
C	answer is in bodrs and decimal reactions of hours, to	TIME 0824
C		71ME0826 71ME0827
C	REFERENCE	TIME 8828
Č	2 AMERICAN PRUEMERIS AND MAUTSCAL SUMANAC, 8961 2 EXPLANATORY SUPELEMERT TO AMERICAN EPHEMERIS AND	TIME0029
C	NAUTICAL ALMANAS, (MER MADESTY'S STATIONARY OFFICE) CONDON	71ME0831
C	METHOD	71ME0832
C	VALUES OF GREENWICH MEAN SIDERBAL TIME ARE OBTAINED BY AD	714E0834
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C	DOUGLE PREEISICH FUNCTION TIME(DAINUM)	714E0655 714E0656 714E0857
C	DOUGLE PRESIGN CARESTOCKON)  DOUGLE PRESIGN FUNCTION TIME(DAYNUM)  DOUGLE PRESIGN C3+C21E3, ROPS2+TO	71 ME 0 6 5 5 71 ME 0 8 5 6 71 ME 0 8 5 7 71 ME 0 8 5 8 71 ME 0 8 5 9 71 ME 0 8 6 0
C C	DOUBLE PRESISION FUNCTION TIME(DAYNUM)  DOUBLE PRESISION FUNCTION TIME(DAYNUM)  DOUBLE PRESISION 63-c2183.R0p42.T0  DATA 41980.C1, C2.C3/24502070.0.08666555555555555600.2.40065126166	71 ME 0 8 5 5 71 ME 0 8 5 6 71 ME 0 8 5 7 71 ME 0 8 5 8 71 ME 0 8 5 9 71 ME 0 8 6 0 71 ME 0 8 6 1 71 ME 0 8 6 2
C	DOUBLE PRECISION FUNCTION TIME(DAINUM)  DOUBLE PRECISION 63 cc2123, R0P52.TO  DATA 91985C1, C2.C2/244502070.0.08668555555555556000.2.4006512616616666503.2.986666555555555555555555555555555555555	71 ME 0 8 5 5 71 ME 0 8 5 6 71 ME 0 8 5 7 71 ME 0 8 5 8 71 ME 0 8 5 9 71 ME 0 8 6 1 71 ME 0 8 6 2 71 ME 0 8 6 3
C C	DOUBLE PRESISION FUNCTION TIME(DAINUM)  DOUBLE PRESISION FUNCTION TIME(DAINUM)  DOUBLE PRESISION FORCETES, ROPES, TO  DATA 91980.C1, C2.C2/24502070.0.046665555555555556000.2.400651261667166667003.2.5065555555555555555560002	71 ME 0 8 5 6 71 ME 0 8 5 6 71 ME 0 8 5 7 71 ME 0 8 5 9 71 ME 0 8 6 0 71 ME 0 8 6 1 71 ME 0 8 6 4 71 ME 0 8 6 4 71 ME 0 8 6 4 71 ME 0 8 6 4
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C C C C C	DOUBLE PRESISION FUNCTION TIME(DAINUM)  DOUBLE PRESISION FUNCTION TIME(DAINUM)  DOUBLE PRESISION FUNCTION TIME(DAINUM)  DATA 91980.C1, C2.C2/245802070.6.\$868455555555555600.2.400851261681 166667083,2,5885555555555555555560002  TU=(DAYNUM-91908)/365859	71 ME 0 8 5 6 71 ME 0 8 5 6 71 ME 0 8 5 7 71 ME 0 8 5 9 71 ME 0 8 6 0 71 ME 0 8 6 1 71 ME 0 8 6 4 71 ME 0 8 6 4 71 ME 0 8 6 4 71 ME 0 8 6 4
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THERE WERE NO MARMING FLASS IN THE ABOVE ASSEMBLE	67906 01 09	-85-72	11,722	POLARIS FONGTION VINE	
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COMMON LEWSTY # 5 S  PEIMARY SYNDEF ENTRY  TIRE S  SECONDARY SYNDEF ENTRY  SURREF  LENGK LENGTH  SYNREF  LIST THE MEXT AVAILABLE LOCATION.  RAP YERRSON, SERMENCY DATES JMPA 05172/052571 JMPC 050171/058571  THERE WERE NO MARRHON FLASS IN THE ABOVE ASSEMBLY  THERE WERE NO MARRHON FLASS IN THE ABOVE ASSEMBLY  FOUND OL OV-85-72 31,728 POLARIS FUNCTION DAYNUM  CHARLES HAVE NOT PRIVATE FUNCTION DAYNUM  CHARLES FUNCTION DAYNUM  TO COMPANY OF BOUWHENATION CARDSONS———————————————————————————————————					
V CHUNT SITES   5					
SECONDARY SYNDEF ENTRY			<u>x</u>		
SECONDARY SYNDER   ENTRY	PRIMARY S	VHDEP	ENYRY		
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### SYMPTHEM					
SYMMEF   118   18 THE NEXT AVAILABLE LOCATION,   9449 VERSION/SSSMADLY DATES   JMPA 050172/058571	SECONDARY S	ANDER	FNAKA		
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110 18 THE NEXT AVAILABLE LOCATION					
### PERBSON/SSEHBILLY Dates   JMPA 050172/05271	SYMEER				
THERE   WIRE   MO   MARHING FLASS IN THE ABOVE ASSEMBLY					4 B4 44 B B T4
### 19282 HORRS OF REMORY WERE USED BY GMAP FOR THRE #\$SSEMBLY;  ###################################	CARLES AND ADDRESS OF THE PARTY				171/0989/1
CDAYN		RDS OF	HUMORY WERE	USED BY GHAP FOR THE ASSEMBLY	
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1 CDAYN PSULARIS FUNCTION DAYNUM DAYNORS 1 2 CSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	67906 01 09	-25-72	11,728	POLARIS PUNCTION BAYBUM	
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2 Commonscriptions System this Bayron ************************************	4	CHAVN	PHI'X	RIS FREETAN DAYNIN	DAVNOB64
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### C PURPOSE  ####  C PURPOSE  ##### C PURPOSE  #### C PURPOSE  #####  C PURPOSE  ###### C PURPOSE  ###################################			FUNCTION DAYN	UM(MUNTHIDAY, YEAR)	
C		C	PURPASE		
1		C	70 CD		DAYNOSOS
13			FOR JNY	DAY FROM AND RETH REGG TO THE ASSU 5000	
14   C	12	C	LANGUAGE		
15		-	FORTR	AN 1V	
16		C	CALLYNER	EQUENCE	
17	16	C	Ve DA	YNUM (MUNTHEDAY . YEAR )	DAVNOSTO
20 C IMPUTS  21 C MUNTH = CALENDAR MONTH (INTEGER)  DAYNOS21  23 C DAY = CALENDAR DAS (FLOATING POINT)  DAYNOS23  24 C YEAR = CALENDAR YEAR (FLOATING POINT)  DAYNOS24  DAYNOS24  DAYNOS24  DAYNOS25  DAYNOS26  25 C OUTPUTS  DAYNOS26  27 C TASKNOW = JULIAN DAY MOMBER AT FERO WOUR FOR THE ABOVE DATEDAYNOS26  DAYNOS27  DAYNOS28  29 C REFERENCE  1, AMERICAN SPHEMERIS AND NAUTICAL ALMANAC DAYNOS28  31 C METHOD  DAYNOS31  32 C THE NUMBER OF DAYS ELEPSED FROM ZERO HOURS UNIVERSAL TIME DAYNOS31  33 C JANUARY 0.1003 ARE ADDED TO THE JULIAN DAY NUMBER OF THAT DAYNOS32  34 C PARTICULAR DAY 1280946679;  DAYNOS35  35 C RESTRICTIONS  PREGRAM CHESKED TO THE YEAR 2009 A.D.  DAYNOS37  DAYNOS37  DAYNOS39		e			DAYNOB17
20 C IMPUTS  21 C MUNTH = CALENDAR MONTH (INTEGER)  DAYNOS21  23 C DAY = CALENDAR DAS (FLOATING POINT)  DAYNOS23  24 C YEAR = CALENDAR YEAR (FLOATING POINT)  DAYNOS24  DAYNOS24  DAYNOS24  DAYNOS25  DAYNOS26  25 C OUTPUTS  DAYNOS26  27 C TASKNOW = JULIAN DAY MOMBER AT FERO WOUR FOR THE ABOVE DATEDAYNOS26  DAYNOS27  DAYNOS28  29 C REFERENCE  1, AMERICAN SPHEMERIS AND NAUTICAL ALMANAC DAYNOS28  31 C METHOD  DAYNOS31  32 C THE NUMBER OF DAYS ELEPSED FROM ZERO HOURS UNIVERSAL TIME DAYNOS31  33 C JANUARY 0.1003 ARE ADDED TO THE JULIAN DAY NUMBER OF THAT DAYNOS32  34 C PARTICULAR DAY 1280946679;  DAYNOS35  35 C RESTRICTIONS  PREGRAM CHESKED TO THE YEAR 2009 A.D.  DAYNOS37  DAYNOS37  DAYNOS39	19	Č		UNITED THE	
21 C		Č	IMPUTS		
23   C	21	C		CALENDAR MONTH (SHTEGER)	DAYNOG21
DAYNG824  25 C OUTPUTS  26 C DA\$NUM > JULIAN DAY NUMBER A\$ ZERO WOUR FOR THE ABOVE DATEDAYNO326  27 C DAYNG827  28 C REFERENCE  29 C 1, AMERICAN SPHEMERIS AND NAUTSCAL ALMANAC DAYNG828  30 C METHOD  32 C METHOD  32 C THE NUMBER OF DAYS ELEPSED FROM ZERO HOURS UNIVERSAL TIME DAYNG831  33 C JANUARY 0.1608 AND ADDED TO THE JULIAN DAY NUMBER OF THAT DAYNG833  34 C PARTICULAR DAY 1280940675;  36 C NESTRIETIONS  37 C RESTRIETIONS  37 C RESTRIETIONS  38 C SUBPROGRAMS REGWIRED  AND THE YEAR 2008 A.D.  DAYNG837  DAYNG836  DAYNG836  DAYNG837  DAYNG837  DAYNG837  DAYNG836  DAYNG837  DAYNG836  DAYNG837  DAYNG836  DAYNG836  DAYNG837		C			
DAYN0825   DAYN0825   DAYN0825   DAYN0825   DAYN0825   DAYN0825   DAYN0825   DAYN0826   DAYN0827	24		TRAN	Cuesubus telik (#POBLIJAS hotali	
DAYNOS27   DAYNOS28   DAYNOS29   DAYNOS31   DAYNOS31   DAYNOS31   DAYNOS32   DAYNOS32   DAYNOS32   DAYNOS32   DAYNOS33   DAYNOS33   DAYNOS34   DAYNOS34   DAYNOS34   DAYNOS35   DAYNOS35   DAYNOS35   DAYNOS35   DAYNOS35   DAYNOS36   DAYNOS36   DAYNOS37   DAYNOS37   DAYNOS37   DAYNOS37   DAYNOS37   DAYNOS38   DAYNOS44	25		OUTPUTS		DAYN8825
### C REFERENCE   DAYNOS28   29 C   1, AMERICAN SPHEMERIS ARD NAUTSCAL ALMANAC   DAYNOS29   DAYNOS30   DAYNOS31   C   METHOD   DAYNOS31   DAYNOS31   DAYNOS31   DAYNOS31   DAYNOS32   DAYNOS32   DAYNOS32   DAYNOS32   DAYNOS33   DAYNOS34   DAYNOS34   DAYNOS34   DAYNOS34   DAYNOS35   DAYNOS45   DAYNO			DANNU	M & JULIAN DAY NUMBER AT ZORO WOUR FOR THE ABOVE DAT	
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THE NUMBER OF DAYS ELEPSED FROM ZERO HOURS UNIVERSEL TIME DAYNOS32   THE NUMBER OF DAYS ELEPSED FROM ZERO HOURS UNIVERSEL TIME DAYNOS32   DAYNOS34   DAYNOS35   DAYNOS45   DAY			1, A	MERICAR SPHEMERIS ARD MAUTICAL ALMANAC	
THE NUMBER OF DAYS ELAPSED FROM ZERS HOURS UNIVERSEL TIME, DAYNOS32   33			MEGUAN		
### ##################################				WHEER OF DAYS ELEPSED FROM TERS HOURS UNIVERSAL TIME	DAYN9831
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36					DAYN0834
37 C PREGRAM CHEEKED TO THE YEAR 2009 A.D. DAYN0837 38 C DAYN0836 39 C SUBPROGRAMS REGWIRDD DAYN0839 10 C ROME DAYN0840 4% C EMALYSTS DAYN0842			000000000	AME	
36 C DAYN0836 39 C SUBPROGRAMS REGWIRDD DAYN0839 30 C ROME DAYN0840 4% C DAYN0841 4% C DAYN0842			1731年16日の日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日	AM CHEEKED TO THE WEAR 2008 A.D.	
### C SUBPROGRAMS REGWIRED DAYN0839	38	C			
4% C DAYN0843 DAYN0842			SUBPROGRA	MS REGMINED	DAYNOSSY
DAYN0842			NOME	39.000	
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44	C APRUIED MATHEMATIGS SECTION	DAYN8844	
45	C WACLOPS STATIONS VAT	DAYN8845	
46	C	DAYNO846	
47	TO FROGRAMMER	DAYNEG47	
48	C DEBNIS MELVEN	DAYNOB48	
49	C APELIED MATHEMATICS SECTION	DAYN8849	
90	C WALLUPS SYATIONS VA?	DAYNOSSO	
51	C	DAYNOS51	
92	CHOMESONE OF DOCUMENTATION CARDSONS CONSTRUCTION CARDSONS CONSTRUCTION CONTROL	eeDAYN6852	
93	C	DAYN0853	
94	FUNCTION DEVELOR (MUNTHEDAY, TEAR)	DAYNe854	
35	C	DAYN6855	
36	REAL MONTHEST)	DAYN0656	
57	E .	DAYN8857	
56	DATA (MONTH(1) Fle1: 6271)/0.0:31.0.59;0.70.0.126,0,151;0:181,0,	DAYNOSS	
59	1222,09243,0,273,0,304,09334702	DAYN0859	
60	C	DAYNOGGO	
61	RYBER : YEXR -1600.8	DAYN8861	
62	C	DAYN0862	
63	C CORRESTIONS FOR LEAP YEARS STATE 1660	DAYN0863	
64	C	DAYNOS64	
65	NOFLY = (RYEAR=1,0)/d.0=1.0	DAYNOSAS	
56	C	DAYN0846	
87	KR & SRYEAR-1,07/408.8	DAVNOE67	
68	C	DAYNOSAS	
69	KRE = (RYBER-1.0)/100/6	DAYN8869	
70	C	DAYN8970	
71	NOPLY =NOPLY-KR-KRS	DAVN8871	
72	C	DAYN8872	
73	IF (AMOD(RYEAR#400,8)) 61,18,11	DAYN8873	
74	C	DAYN0874	
75	11 IF (AMODIRTEAR+100,8); 62,28,12	DAYN0875	
76	C	DAYN6876	
77	12 IF (AMODERTEARS4:07) 28-10.36	DAYN0877	
78	c	DAYN8878	
79	10 IF (MUNTH-2) 20-20.21	DAYN8879	
80	C	DAYNOSSO	
81	SI HOPLYSHOPLYSI	DAYNOSS1	1
82	C	DAYN8882	
8.2	EO DEVNUM # 2505446.5 ARYEAROSES: 0+FLOAP(NBPLY)+MONTH(MUNTH)+QAV	DAYNOBSS	1
84		DAYNO984	
85	RETURN	DAYNOBRS	1
86	C	DAYNOSSO	
87	END	DAYNOS87	1

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67906 01 09-85-72 11,738
                                      POLARIS FONETION DAYNUM
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 PREFASE
 COMMON LENGTH 8
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   PRIMARY SYNDER ENTRY
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 SECONDUM SANDES BULLA
 BEOOK LENGTH
SVWREF
213 IN THE NEXT AVAILABLE LOCATION,
SMAP VERBSON/ASSEMBLY DATES JMPA 090176/052571
THERE WERE NO WARRING FLASS IN THE ABOVE ASSEMBLY
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SO 19219 HURDS OF REMORY HERE USED BY GHAP FOR THES BESERBLY

JMRB 096171/052571 JMPC 050171/052571

67906 01 09-25-72 11,736 SUN AND MOON ELEVATION BONSTRAINTS

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SUN AND MOON ELEVATION CONSTRAINTS
                                                                                                                                                         SUNMORO1
               2
                                                                                                                                                         SUNMOSOS
 3
               CHARGE-CHASTART OF BOCUMENTATION CARDS-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARGE-CHARG
                                                                                                                                                         SUNMOROS
               CS-S----NASA WALLEPS VERSION OF $2201270
                                                                                                                                                         SUNMOROS
                                                                                                                                                         SUNMOBO7
               CHOMOGOGOLANGUAGE OF ORTRAN IV
                                                                                                                                                         SUNMOSOS
                                                                                                                                                         SUNMOBO9
10
               CHARAGHINE-GE 625
                                                                                                                                                         SUNM8010
                                                                                                                                                         SUNMOB11
11
12
               Chamacamapurposto
                                                                                                                                                          SUNMOB12
                                TO DETERMINE THE DAILY TIME INTERVAL FOR HHIGH THE SUN AND MODRSUNMORES
43
                                WILL BE BELOW THE RESPECTIVE RLEWATION ANGLES AT EACH TRACKING SUNMOSIA
14
                                SYATIONYS LUCAL HORIZON.
15
                                                                                                                                                          SUNMOB15
16
                                                                                                                                                         SUNMOSIO
17
              Свесовоненстноро
                                                                                                                                                          SIJNM8817
                           THE SOLUTION FOR DETERMINING THE TIME PERSODS FOR WHICH THE SUNSUNMOSES AND MOON BONSTRAINTS ARE MET HOR EACH STATION ARE DEVELOPED SUNMOSES
18
19
               C
                                USING SIMILAR ANALYSIS, AN APPROXIMATE TIME FOR THE DEFINED
               C
20
                                                                                                                                                         SUNMODED
                                COUSTRAINT (SUN OR MOON) TO BE MET IS DETERMINED FROM THE
21
                                                                                                                                                         SUNMOB21
                                FIRST INTERVAL FOR THE DAY PLUS DELTAINS, THE POSITION OF THE
22
                                                                                                                                                         SUVMOBEZ
                                SUN OR MOON FOR THAT TIME IS ROUND AND IS THEN TRANSFORMED TO THE TOPOCENTRIC COORDINATES OF THE TEACKING STATION. THE ELEVATION ANGLE OF THE SON (OR MOON) AT THIS TRACKING STATION
23
                                                                                                                                                       SUNMOBES
24
                                                                                                                                                         SUNMB824
25
               C
                                                                                                                                                         SUNMB825
                                IS FOUND FOR THE CURRENT POSITION OF THE SUN (MOON), A THREE POINT INTERPOLATION METHOD IS USED TO APPROXIMATE THE NEXT
               C
26
                                                                                                                                                         SUNMBB26
               C
27
                                                                                                                                                          SUNMOB27
28
                                GUESS AT THE TIME FOR WHICH THE BONSTRAINT IS MET, THE PROSESS
                                                                                                                                                         SUNM8828
                                OF DEFINING THE ROSITION OF THE BUN SMOON) FOR THE LATEST UNIVERSAL TIME, TRANSPORMING TO TOPOGENTRIS COORDINATES AND
29
                                                                                                                                                         SUNM6829
               C
30
                                                                                                                                                         SUNMO030
                                FOUND FOR WHICH THE RATIO OF IMF ELEVATION ANGLE TO THE SUNMOSSE
31
               C
               C
32
                                REQUIRED CONSTRAINT IS ACCORAGE TO .8001 OR THAT THE ITERATIVE SUNMO833
PROCESS IS TOO LONG AND IMPLIES A HEAK CONVERGENCE OR SUNMO834
BIVERGENCE, THE TIME PERIOD FOUND IS STORED AS THE SECOND TIME SUNMO835
               C
33
34
               C
35
               C
                                PERIOD FOR THE DAY?THE MAIN REGGRAM TREATS THIS AS THE EIRST
36
                                                                                                                                                          SUNMO036
               C
                                TIME PERIOD OF THE NEXT DAY BE SUBTRACTING 24 HOURS FROM THESE SUNMOB37
37
               C
38
                                VALUES,
                                                                                                                                                         SUNMOB38
                                IF A MOVING TRACKING STATION IS SUPUL. THEN THE TIME OF DAY FOR WHICH ITS POSITION AT THE END OF THE EXPERIMENTAL PERIOD
39
               C
                                                                                                                                                          SUNMO839
40
                                                                                                                                                          SUNMER40
                                SATISFIES THE SUN AND HORN BLEELTION CONSTRAINTS IS FOUED?
61
               C
                                                                                                                                                         SUNMOB41
45
                                THESE TIMES ARE STORED IN THE WIEDOW ARMAY AND THE WINDOW TIMESSUNMO842
                                FOR THE MOVING TRACKING STATION AND DETERMINED SUCH THAT THE SUNMOS43 SUG AND MOON CONSTRAINTS WILL BE SATISFIED FOR ITS POSITION AT SUNMOS44
43
64
               C
                                TIME OF RELEASE AND BURING THE EXPERIMENTAL PERIOD.
45
                                                                                                                                                         SUNHOR45
46
                                                                                                                                                         SUNMBR46
47
               Coossoss | HPUTs
                                                                                                                                                         SUNMOBAT
               C
48
                                                                                                                                                         SUNMOR45
49
                                                          "THE NUMBER OF STATIONS USED IN THE RROGRAM
                                                                                                                                                         SUNMO849
50
                                                                                                                                                         SUNMORSO
51
               C
                                                           -AN ARRAY CONTAINING THE STATION NUMBERS USED
                                NOS(12)
                                                                                                                                                         SUNMOS51
52
                                                                                                                                                         SUNMO852
53
               č
                                WINDOW(8,8,12)-THE DAILY RELEASE WINDOW START/STOP TIMES,
                                                                                                                                                         SUNH8853
                                                           -187 INDEX FOR TTORING START/STOP TIMES,
               C
54
                                                                                                                                                         SUNMOS54
55
                                                                                                                                                         SUNMOSSS
                                                           -2 FOR STOR TIME
56
                                                                                                                                                         SUNMORSO
57
               CC
                                                           -2ND INDEX FOR THE CONSTRAINT
                                                                                                                                                         SUNMOBS7
58
                                                                                                                                                         SUNMOSSS
                                                               3 a S B N
39
               C
                                                                                                                                                         SUNM8859
                                                                4 s M Q O N
               C
68
                                                                                                                                                         SUNMER60
                                                           -3RD INDEX FOR THE STATION NUMBER
61
               C
                                                                                                                                                         SUNMBR61
               C
                                KYEAR
                                                           -YEAR NUMBER FOR STARTING BALCULATIONS
                                                                                                                                                         SUNMOB62
               C
63
                                                                                                                                                         SUNMODES
64
               CC
                                1
                                                           -SURRENT NOMBER OF DAYS PAST JANUARY O OF TRYEARTSUNMSS64
65
                                                                                                                                                         SUNMOSSS
               C
66
                                                           -INDEX TO INDICATE CONSTRAIST
                                                                                                                                                         SUNMORGÓ
67
               C
                                                                                                                                                         SUNM6847
                                                                e3,8UN
68
               C
                                                                 041800N
                                                                                                                                                         SUNMOSAS
69
               C
                                                                                                                                                         SUNMERAS
70
                                DELTA(3)
                                                           -APPROXIMATE PERTOD OF SUN MOTION (HRS)
                                                                                                                                                        . SUNH0070
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71 C	BELTA(4)	-APPROXIMATE PESTOD OF MOON MOTION (HRS)	SUNM0871 SUNM0872
73 C			SUNM8873
75 C	NAME (3.12)	-NAME OF TRACKING STATIONS USED	SUNM0974 Sunm0975
76 C	LAMBDA(12)	-LONGITUDE OF TRACKING STATION (DEG)	SUNM8876 SUNM8877
78 C	RVS(12)	GRADIUS VEETOR BROM EASTH GENTER TO TRACKING	SUNMOSTS
80 C		-STATION (BRU)	SUNM0979 Sunm0980
81 C	GHA	-GREENHICH MEAN SIDEREAL MOUR ANGLE AT ZEBO HOU	RSSUNMOBAL SUNMOBAZ
82 C 83 C 84 C	D/2.		SUNMBOB3
	R(3)	-SUN ELEVATION CONSTRAINT (RADIANS)	SUMM6884 Summ6885
86 C	R(4)	=MOON ELEVATION CONSTRAINT (RADIANS)	SUNM8886 Sunm8887
85 C 86 C 87 C 88 C 90 C	ANS(3)	-DISTANCE EROM BARYH CENTER TO SUN SASTRONOMIC UNITS)	ALSUNMOSAS SUNMOSAS
91 C 92 C 93 C	AMS(4)	-INERTIAL % GOMPONENT OF VECTOR FROM EARTH SENT -TO SUN (AU)	SUNM0090 ERSUNM0891 SUNM0092
94 C 95 C 96 C	ANS(5)	-INERTIAL % COMPONENT OF VESTOR FROM EARTH SENT -TQ SUN (AQ)	SUNM0093 ERSUNM0094 SUNM0095
97 C 98 C 99 C	ANS (6)	-INERTIAL I COMPONENT OF VECTOR FROM EARTH SENT -TO SUN (AD)	SUNM8898
100 C	ANS (9)	=DISTANCE EROM MARTH CENTER TO MOON (ERU)	SUNM0899 SUNM0100
102 C 103 C	ANS(10)	-INERTIAL % SOMMONENT OF VECTOR FROM EARTH SENT -TO MOON (ERU)	SUNMBEOS
104 C 105 C 106 C	ANS(11)	=INERTIAL % COMPONENT OF VECTOR FROM EARTH SENT =TG MOON (ERU)	SUNMOIOS
106 C 107 C 108 C	AMS(12)	-INERTIAL 2 COMPONENT OF VESTOR PROM EARTH SENT -TO MOON (SRU)	SUNMO109
109 C 110 C 111 C 112 C 113 C	AGG270(3.3)	-ELEMENTS OF TRANSFORMATION MATRIX FROM THE -INERTIAL SYSTEM TO THE TOPOGENTRIC SYSTEM	SUNM0110 SUNM0111 SUNM0112
114 C	DTR	-Conversion Eactor From DeGrees to Radians	SUNM0113 SUNM0114
115 C	RTH	-CONVERSION EACTOR FROM RADIANS TO HOURS	SUNM0115 SUNM0116
117 C	HTR		SUNMO117
119 0		CONVERSION RAGTOR FROM HOURS TO RADIANS	SUNM0118 SUNM0119
	AU	-CONVERSION EACTOR FROM ASTRONOMICAL UNITS TO -EARTH RADTI UNITS	SUNM0120 SUNM0121
122 C 123 C 124 C 125 C 126 C	MOVE(12)	-CODE NUMBER TO DEFERMINE IF STATION COORDINATE	SUNM0122 SUNM0123 SUNM0124
126 C		==0; FOR FIXED STATSON ==01:FOR AIRCRAFT	SUNM0125 SUNM0126 SUNM0127
128 C 129 C 130 C	SPNLATERS	-SINE OF AIRGRAFY GEOCENTRIC LATITUDE DURING -EXPERIMENTAL PERIOD	SUNM0128 SUNM0129
131 C	COSLAT(7)	-COSINE OF AIRCRAFT GESCENTRIC LATITUDE DURING -EXPERIMENTAL PERIOD	SUNM0130 SUNM0131 SUNM0132
133 C 134 C 135 C	SIGLON(7)	SINE OF AIRCRAFY LONGITUDE DURING EXPERIMENT	EEROMNUE PEROMNUEJA EEROMNUE
136 C 137 C 138 C 139 C	COSLON(7)	-COSING OF AIRCRAFY LONGITUDE DURING EXPERIMENT	SUNM0138
140 C	RVA(7)	-DISTANCE EROM EARTH CONTEN TO AIRCRAFT DURING	SUNM0139 SUNM0140
142 C		WEMPERIMENTAL PERIOD (BRU)	SUNM0141
143 C	RLAT(7)	-GEOGENTRIE LATITUDE DE AIRCRAFT DURING -EXPERIMENTAL PERIOD (EADIANS)	SUNM0143 SUNM0144

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145
                                                                                                  SUNM8245
146
           C
                                      -LONG TOUDE OF ATROCKAFT CURING EXPERIMENTAL PERIODSUNMOS46
167
                                      - (RADIANS)
148
           C
                                                                                                  SUNMBR48
149
                                       WHERE OF STEERETE VALUES STORED FOR
                                                                                                  SUNMOS49
190
          C
                                       SEXPERIMENTAL PRETED DATA
                                                                                                   SUNMOSSO
151
                                                                                                   SUNMOS51
152
                                                                                                   SUNMO$52
          CB464+6990U4bU4-
153
                                                                                                   SUNMOSSS
194
                                                                                                  SUNMOS54
155
           C
                                       -ARPROXIMATE PERTOD OF SUN MOTION (HRS)
                      9874V[3]
                                                                                                   $UNM0155
156
                                                                                                   SUNMO156
157
           C
                      DEL 94 (4)
                                       SARPROXIMATE PERTOD OF MOON MOTION (HRS)
                                                                                                   SUNM6257
158
           C
                                                                                                   SUNMOSSE
                   WINDOW(8, 5, 12) - THE DATLY RELEASE WINDOW START/STOP TIMES,
159
           C
                                                                                                  SUNMASSO
                                       -197 THOEX POR STORING START/STOP TIMES,
160
           C
                                                                                                   SUNMB160
           C
151
                                       OF FOR START TIME
                                                                                                   SUNMOS61
162
                                       wd FOR STOR TIME
                                                                                                   SUNM6162
163
                                       -END INDEX FOR THE CONSTRAINT
                                                                                                   SUNMOSES
164
                                          3±SUN
                                                                                                   SUNMO164
155
                                          4 a MQON
                                                                                                   SUNMORES
166
                                       -3RD INDEX FOR THE STATION NUMBER
                                                                                                   SUNHOTES
157
                                                                                                   SUNNOSST
168
           CheseseseRESTRICTIONS.
                                                                                                   SUNMO168
                      TIME PERIODS FOR UP TO THECVE TRACKING STATIONS CAN BE ROUND.
169
                                                                                                  SUMMOSAS
170
                      ROUTINE DEPENDS UPON THE AVAILABLE DATA ON THE SUN AND HOSN
                                                                                                   SUNMO170
                      POSITION TO BE DEFINED IN THE EPHEMESIS TABLES FOR THE DATES SUNMESTI
171
172
173
           C
                      1991, ADDITIONAL DATA CAN BE MEDE AVAILABLE NHEN NEGESSARY?
                                                                                                   SUNHOSTS
174
                                                                                                   SUNM0174
           Cassessupprograms REQUIRED.
175
                                                                                                   SUNNOSTS
176
                                                                                                   SUNMOS76
177
                             ERHEMERIS TABLES
                                                                                                   SUNMOSTI
178
                      GCZYC
                                                                                                   SUNMOSTE
179
                                                                                                   SUNMOSTS
180
           CoocoocoRSMARK-
                                                                                                   SUNMOSSO
                      ONLY ELEVEN TRACKING STATIONS CAN BE USED AS INPUT IF ONE OF
181
                                                                                                   SUNMO161
182
                      THESE STATIONS IS AN AIRCRAFT!
                                                                                                   SUNMOSES
183
                                                                                                   SUNHOSES
           CHARAGOGGEND OF DOBUMENTATION CARRESPANDED CONTRACTOR OF THE CONTRACTOR OF T
184
                                                                                                  -SUNMOSS4
185
                                                                                                   SUNMOSES
186
                  SUBROUTINE SUNMM (19M)
                                                                                                   SUNMOSSO
187
                  COMMON/BUKX AKMONTHONDAY , KYBAR . LHONTH, LDAY , LYEAR , KMCZ KDA.
                                                                                                  SUNMOS87
188
                                  KYR, LNOT LDA. LTR. TCALC. IPRTY, IPRT9, IPRT$141PLOTSUNH8188
                  COMMON/BLKE1/R(8)
189
                                                                                                  SUNMB189
                  COMMON/BLKD /NS& NOS(12)
COMMON/BLKD /NS& NOS(12)
COMMON/BLKD /NSA NOS(12)
COMMON/BLKD /NSA NOS(12)
COMMON/BLKD /NSA NOS(12)
190
                                                                                                   SUNMO190
191
                                                                                                  SUNMOSSI
192
                  COMMON/BEKES/ SINSLT(12), COSSLT(12), SINSLN+12); COSSLN(12);
                                                                                                   SUNME192
193
                 COMMON/BLKMS/SINLATITIO COSLATITIO SINLON(7); COSLON(Z); RVALT)
                                                                                                   SUNM0493
                                                                                                   SUVM0194
                  COMMON/BLKET/RLAT(T); RLON(T)
GOMMON/BLKE /DTR, RTDy MTR, HALFFT, RTH, AU. DELTA(4), ERM, DGHA
195
                                                                                                   SUVM0195
196
                                                                                                  SUNM0196
199
                  COMMON/BLKS/ SUNL, GHA
                                                                                                   SUNM0197
                  COMMON/BLKM/ WINDOW(679912)
198
                                                                                                   SUNM0198
199
                  COMMON/BERT /WX(12) WY(12) WZ(12) BAC12.71 C(12.7) JEND COMMON /TMATRX/ AGC2TC(3.8)
                                                                                                   SUNM0199
                                                                                                   SUNMOZOO
                  DOUBLE PRECISION DAM! MAD' MAS' AVELLE
201
                                                                                                   SUNM8281
202
                  D$MEMB108 XNS(12)
                                                                                                   SUNMOSOS
                  SAVE PVHBDX
503
                                                                                                   SUNMOROJ
204
                                                                                                   SUNMOR64
           ARESINTES ATANGM/SERVIE.0-84%);
C FIND START TIME THEM STOP TIME ROR WEEN SUN OR MOUN RESTRICTION IS METSUNMOSOF
205
206
207
              FOR EACH TRACKING STATION
                                                                                                   SUNMORA7
                  LTEMP :0
DU 100 Leilns
J ENUSELT
208
                                                                                                   SUNMOROS
508
                                                                                                   SUNMO209
210
                                                                                                   SUNMORIO
           C KEEP FIRST WINDOW TIMES LESS THEN 24 HOURS
211
                                                                                                  SUNM8211
                  IF (MOVE(J); EQ. 0) 00 70 41
NVEMP : NOS(85) : 1
212
                                                                                                  SUNME212
213
                                                                                                   SUNMOR13
              IF (MINDOW(27MVJ), 66.24,0) 00 70 51
IF (MINDOW(27MVNTEMR)?LY,2470) 60 70 31
WINDOW(37MJ) WINDOW(4,M,U)
214
                                                                                                  SUNMOZ14
215
                                                                                                   SUNM0215
                                                                                                               11
210
                  WINDOW(4IM, J) + WINDOW(8, M, J)
WINDOW(3IM, NTEMP) + WINDOW(2, M, MTEMP)
217
                                                                                                   SUNM8217
                                                                                                               15
218
                                                                                                   SUNMOR18
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WINDON(GINGNYEND) O WINDOW(ZONONZEME)
WINDOW(ZONONZEMD) O ANAKI'NGNDOW(ZONOZ) P(WINDOW(ZOM NOZ) P(WIND
57 E
                                                                                                                                                                       3UNM0217
                                                                                                                                                                                           17
220
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357
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555
                                                                                                                                                                       SCHHAME
                                                                                                                                                                                           20
                              HENDOR(ZZMANTERP) S HENDOM(ZZM.NTBMR) - 24.9
223
                       SUNMOSSS
                                                                                                                                                                                           21
554
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                                                                                                                                                                                           55
225
                                                                                                                                                                       SUNNSESP
                                                                                                                                                                                           23
330
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227
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228
                                                                                                                                                                       SUNNOEZS
                                                                                                                                                                                           28
                        35 DO 200 K s 112
                                                                                                                                                                                           29
229
                                                                                                                                                                       SUNMBERF
                  THER 60
C SHY FERBY QUESS TON TIME FOR WHICH HESPRISTION IS MEY
UP SHINDON(MAN, J) & DELTE(H)
C SNIP VO AG IF THIS IS AGREEFT STATION
ES IF (J, EG, L, EMP) GO TO 40
538
                                                                                                                                                                       SCHWINGS20
                                                                                                                                                                                           80
281
                                                                                                                                                                       SUNMORS1
333
                                                                                                                                                                      SCESSMARE
                                                                                                                                                                                           31
233
                                                                                                                                                                       SUNMERSS
234
                                                                                                                                                                      PERBUNUS
                  C FIND WOUR ANGLE FOR STATIONALL IN RABITAGE
332
                                                                                                                                                                      SUNMSESS
236
                               DHEEA SEENE BUTODEHE SOMYR o LEMESE (d) oder
                                                                                                                                                                       SUNMESSO
                                                                                                                                                                       SUNMERS7
                  C DETENDING SUTFOON EPHENERIS DATE AT VINE UX FOR GURRENT BATE
238
                                                                                                                                                                       SUNMORSO
                                                                                                                                                                                           37
239
                                                                                                                                                                       SUNMO839
                  C DETERMINE SUBVITION ANGLE FOR SUNTHERS ST THE ST ST TRANSPORMENS TO
 596
                                                                                                                                                                       SUNHEE40
                                                                                                                                                                                           36
261
                                                                                                                                                                      BUNHEBAS
                  C TOPOGRAPHY COORDINATES AV SVANGEN(3)
USLL BESTC (JMSSA, J)
C SRIP TO 40 IF THIS IS A INGRAPY EVATION
248
                                                                                                                                                                       SUNHE842
249
                                                                                                                                                                       SUNM9843
244
                                                                                                                                                                       SUNHOB44
                  IF (J.EGGLTENP) BO VO 46

C FIND THE E-COMMODENT AND THE MASSITURE OF THE VESTOR FROM STATZOR(J)

C FOR THE SUN USE THE MODEONING MOS THE MOON SKIF TO 42
265
                                                                                                                                                                       SUNH6245
                                                                                                                                                                                           40
                                                                                                                                                                       SUNMB246
246
247
                                                                                                                                                                       SUNMAR47
                               17(M.SQ.4) G8 T0 18 SUNM8248
28 4(RC27C(1,1)SANS(4) 988C27E(8,2)SAMS(5) AGC27E(1,3)ANS(6)BUNM884F
248
344
                             XHAC BARSISTAN - RUSTU)
250
                                                                                                                                                                       SUNHEESO
291
                                                                                                                                                                                           47
                                                                                                                                                                       SUNMESSI
298
                                                                                                                                                                       SUNM0252
                                                                                                                                                                                            48
233
                C
                                                                                                                                                                       SUNMegsa
294
                  C CALCULATE XSIXEAS FOR MOOR
                                                                                                                                                                       SUNME294
333
                                           eadC378(3a1) dans(50) dagC278(6,2) fans(11) adG278(103) dans(188UMH6899
299
                                             1 0848(7)
                                                                                                                                                                       SUNHORSE
297
                               THES
                                           BANSERY -RVSIJI
                                                                                                                                                                       SUNME257
                                                                                                                                                                                            50
                               80 YB 13
298
                                                                                                                                                                       SUNMOSSE
                                                                                                                                                                                            91
                        44 15 (H.E064) 80 YO 45
52A
                                                                                                                                                                       SUNMORSP
                                                                                                                                                                                           92
260
                               KB
                                           ##GE2TC(1.170ARS14) ##GC2TE(8.2)#4NS(5) +##C2TE(1+3}+#NS(6)$UNM8260
                                              TYAU SRVA(JERD)
502
                                                                                                                                                                       SUNMOR61
                              NHAG
505
                                           COMBERARD OMARGEND)
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                                                                                                                                                                       SPERMINE
                               40 75 18
263
                                                                                                                                                                       SUNMOR63
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                                           #A4CZTR(101)0ANS\80)08GZZTD 0192)06NS(25)0A6GZTS61,3)9A8S(12)SUNMOR64
08VR(JEND)
                         da X2
284
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289
                              MAS SANSEY "RVA!JEND!
266
                                                                                                                                                                       SUNMU266
                                                                                                                                                                                           39
207
                                                                                                                                                                       SUNMOR67
                  ES ETA PUNCEIN(XE\XHTG)
C CUTCHTUÁS ANS BESAVAION VNSFE
                                                                                                                                                                       SUNMER68
200
 598
                                                                                                                                                                       SUNMORAS
                                                                                                                                                                                           60
                                                                                                                                                                       SUNH8870
270
 271
                   C CARCK LOW COMARKSENCE
                                                                                                                                                                       SUNM6271
                  TF (AUS(E.D DEDV/R(U)), U1, 178-4) 60 TO 88
C PRINT ERROR MESSAGE FOR NO GOVERNOR IN THE THE THAN SO
 275
                                                                                                                                                                       SUNMe272
 273
                                                                                                                                                                       SUNMOETS
                               TYER $ (YER $ 1

IF (EVER,LY, 15) GO VO 15

IF (M,EQ, 4) GO TO 14

UNITE (6215) (NAME(N,J) 9N91.3)
                                                                                                                                                                       SUNM8274
 274
                                                                                                                                                                                           66
 275
                                                                                                                                                                       SUNMe275
                                                                                                                                                                                           85
 276
                                                                                                                                                                       SUNN6276
                                                                                                                                                                                           68
 277
                                                                                                                                                                       SUNMORTT
                                                                                                                                                                                           71
                        10 FORMAY (378NO CONVERGENCE FOR SUN CONSTRAINT FORISAS)
 278
                                                                                                                                                                       SUNH0275
                                                                                                                                                                                            76
279
                               STUP
                                                                                                                                                                      SUNMERTY
                                                                                                                                                                                           76
 200
                         Se HRIVE (6128) (NAME(N.J) PHOLOS)
                                                                                                                                                                                           97
                                                                                                                                                                       SUNHORSO
                        20 FORMAY (SUMME CONVENSENCE FOR MOSH WONDERALLY FOR JAA)
501
                                                                                                                                                                       SESSMEUR
                                                                                                                                                                                           92
 282
                               STOP
                                                                                                                                                                       SUNHESES
                                                                                                                                                                                           82
                  C 14ERATE TO FIND TIME FOR ELY TO MEET COMSTRAINT

SE IF (14ER, GY, E) SO TO 16

DV + (SLO -R(M)) ORTH

C SAVE SLV FOR NEXT 17ERATION

ELVA -SELV
203
                                                                                                                                                                       EBBOHHUS
284
                                                                                                                                                                       SUNMOR84
                                                                                                                                                                                            83
295
                                                                                                                                                                       SUMMOZOS
                                                                                                                                                                                            86
 286
                                                                                                                                                                       SUNMERSE
                               SO TE TA
 287
                                                                                                                                                                                            87
                                                                                                                                                                       SUNMOSS7
                                                                                                                                                                       SUNMOSOS
 288
                                                                                                                                                                                            88
                   C USE THIS HOURTION FOR SUCCESSIVE THERETONS AFTER THE FIRST
 294
                         86 DY
 500
                                            BAUSE DT/(BLV -BLV2)) - (EFF -B(M))
                                                                                                                                                                       SUNMOPPO
                                                                                                                                                                                            89
 201
                               EL VA
                                           SELV
                                                                                                                                                                                           90
                                                                                                                                                                       SUNMOR91
```

272 47 [F (H, 28-2] BYoop?	BUNH6292 91
SAR C CAR HERYARAS OF PETAY ASHE SE EXOM ASHE AS RESUR COMMELED	
294 UV 6UV 8 57	SUNM6294 94
295 CREGALGULATE USTNE NEW DV AS GUESS	\$UNM6866 62
297 C HEVE THE CONSTRAINT IS MET	SUMMeg97
TUR CLYMSENTROUGH 84	SUNM6298 96
SAA DECLESES O MENDER (MESSINGT) + REMBERTECTION)	SUNMEE99 97
300 200 50071800	SUNH6500 98
302 C SRIP TO 48 IF SYNTION CELEULATED WAS AINCRART 302 BY IF (U, E0; LYEMP) GO TO 42	1089MUE 008 2089MUE
282 JABMA PA	SUMMES03 403
384 C SRIP TO 168 IF STATION GALEWLATED WAS FENED	SUMMUS04
305 IE (4848(7485) 60 60 40 70 700	SUNM6805 804
386 LYENR +MOSENE) + 1	SUNM8306 407
387 J 5648P	9UNM8807 888 SUNM8808 409
309 C DETERMINE SURFHOON TIMES FOR AIRCRAFT	SUNMOSOF
310 42 HINDOR(SYNGOTEMP) O AMAZI (HIMBOHES, M. JISMP) 4 HINDOR(SEM	, J) 9R 471)) SUNM8340 640
311 HENDOGICAZHESPET & ARCHICHENDUSER, H. JEBMP) ACHINDONCAM	. J) #R 07 ) )   SUNMOB11 111
312 C HAME TIMES FOUND FOR ATROPAPT PESTTERN AT END OF TRACKING P	
252 C MINBONIZMONO ON MENA DAY.	SUNM6813 SUNM6814 612
G.55 (L.Mebindduiks (P.MISikoduik E.55	SUNM6514 612 SUNM6515 613
316 J sJ?EMP	SUNM0516 814
327 :00 CONTINUE	SUNM6317 £19
318 30 CONTINUE	SUNM6518 617
319 RETURN 326 END	SUNM6519 618 SUNM6320 619
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SUNH6320 617
Seeds Makes of MeMona Camp Bo ARIS Soublitien	
47906 01 09-25-72 11-749 SUN AND MOC! BUBYAYISH CBNSTMAINTS	858\$8\$000000000000000000000000000000000
47906 01 09-25-72 11,749 SUN AND MOT! BURYAYISH CBNSTRAINTS	85595\$0000000000000000000000000000000000
47906 01 09-25-72 12.749 BUN AND MOT! BURYTHAINTS  RESPACE  PROSENT BREAK 1288  COMMON LENGTH 8  V SEWNY BIYS 5	
47906 03 09-25-72 \$2,749 SUN AND MOT! BURYAYISH CBNSTRAINTS	
ATOUS DE DO-25-72 ES, FAY BUN AND MOT DEBYATION CONSTRAINTS  ANGENAGE  PROMRAM BROKK 1288  COMMON LENGTH 8  V GRUNT BITS 9  PREMARY SYNDEP ENTRY	
ATOUS US US-25-72 \$2,749 SUN AND MOT! BURY SUNGMOUSING SUNGMASSES  PROSENT BREAK \$288  COMMON LENGTH 8  V GRUNT BITS 5	
STORE OF DA-52-15 FEATH BIN WAS NOT BEEN AND SOLUTION CONSTRUINTS	855989000000000000000000000000000000000
ATOUS DE DO-25-72 ES, FAY BUN AND MOT DEBYATION CONSTRAINTS  ANGENAGE  PROMRAM BROKK 1288  COMMON LENGTH 8  V GRUNT BITS 9  PREMARY SYNDEP ENTRY	
4790年 05 09-25-72 \$5,749 SUN AND MOC! BURYRYIGN CBNST#8\$NYS	
STORE OF DA-52-15 FEATH BIN WAS NOT BEEN AND SOLUTION CONSTRUINTS	
BPBSK         FEMBLA           SECONDEGA ZAMDSE EMASA         BRANA BLAR           ABBNA BLAR         B           COMMAN FEMBLY         5           LORANA BLAR         B           COMMAN FEMBLY         5           LORANA BLAR         B           BRANA BLAR         B           COMMAN BLAR         B           BRANA BL	
2 8 PM 2 28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
######################################	888989000000000000000000000000000000000
2 8 PM 2 28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
######################################	
47906 05 09-85-72 \$2,749 SUN AND MOC! BUBYATION CONSTRAINTS	
67906 03 09-85-72 23,749 SUN AND NOC! BUBYATISH BUNNHA600000  RREPASE  PROBRAM SRSAK 2288  COMMON LEWSTH 8  V SSUNY BIVS 9  PRIMARY SYNDEP BUYRY  SUMMN 8  SECONDARY SYNDEP BUYRY  1 SLAS 28 2 SLAS 28 3 SLAS 15 4 SLAS 15 5 SLAS 15 7 SLAS 28 7 SLAS 28 7 SLAS 28	
67906 03 09-85-72 \$3,749 SUN AND NOC! BUBYARSAYS	
######################################	
67906 01 09-85-72 52,749 SUN AND NOT REPRETION CONSTRUCTOR  REFAGE  PROMEN BREAK 1282  COMMON LENGTH 8  V SHUNY BIVS 5  PRIMER SYNDEP ENTRY  SUMEN 8  SECONDARY SYNDEP ENTRY  LENGT 15  3 SLMB 15  5 SLMB 15  5 SLMB 15  6 GLMB 16  7 SLMB 17  8 SLMB 15  10 SLMB 15  10 SLMB 15  11 SLMB 28  12 SLMB 15  13 SLMB 15  14 SLMB 15  15 SLMB 15  16 SLMB 15  17 SLMB 15  18 SLMB 15  19 SLMB 15  10 SLMB 15  11 SLMB 15  12 SLMB 15  13 SLMB 15  14 SLMB 15  15 SLMB 15  16 SLMB 15  17 SLMB 15  18 SLMB 15  18 SLMB 15  19 SLMB 15  10 SLMB 15  11 SLMB 15  12 SLMB 15  13 SLMB 15  14 SLMB 15  15 SLMB 15  16 SLMB 15  17 SLMB 15  18 SLMB 15  19 SLMB 15  10 SLMB 15  11 SLMB 15  12 SLMB 15  13 SLMB 15  14 SLMB 15  15 SLMB 15  16 SLMB 15  17 SLMB 15  18 SLMB	
67906 01 09-85-72 11,949 SUN AND NOT BLEYRYIGN CBNSYMEINYS  RESPACE  PROBRAH BREAK 1288 COMMON LENGTH 8 9 SEGNATE SYNDEP ENTRY  SECONDARY SYNDEP ENTRY  BLOSK LENGTH  1 SLANE 28 2 SLANE 15 3 SLANE 15 5 SLANE 17 6 SLANE 18 7 SLANE 28 1 SLANE 18	
67906 02 09-82-72 23,969 SUN AND NOC! BURYERSHYS	
67906 01 09-85-72 11,949 SUN AND NOT BUEYRYIGN CBNSYGRINYS  REFAGE  PROMERY BROK 1288 COMMON LENGTH 6 9 SUNDATH STYNDSP SHYRY  SUMMN 8 SECONDATE SYNDSP SHYRY  1 SUMM 125 2 SUNG 1 15 3 SUNG 1 15 4 SUNG 1 15 4 SUNG 1 15 5 SUNG 1 15 6 SU	
###### \$2	
67906 02 09-82-72 23,949 SUN AND NOC! BURYESTAYS	

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20 RDBHW
21 FCNV
22 FE217
23 FF5L
24 FRRD*
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1202 IS THE NEXT AVAILABLE LOCATION,
GMAP VERSTON/ASSEMBLY DATES JMPA 656174/052571 JMPC 056171/052571 JMPC

67906 01 09-25-72 12,754 INERTIAL TO TOPOCENTRIC TRANSFORMATION

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CSCTC
                         INTRIVIAL TO POPOSSIVENCE TRANSFORMSTION
                                                                                                         GCTC8861
          GC7C0#03
          ChessessSTARY OF BOCUMENTATION CARBSessessessessessessessessessessessesses
          CB-66-68-NASA WALLOPS VERSION OF $2201870
                                                                                                         GCYC6800
                                                                                                          GCTC0807
          Co-seeseLANGUAGE-FORTRAN IV
                                                                                                         GCYCe 368
                                                                                                         GCTC0009
GCTC0010
         Canadone HAGHINE-GE 625
10
11
                                                                                                          GCTC8811
12
          GCTCBB12
13
             ROTATION FROM INERTIAL RECTANDULAR COORDINATES TO A TOPECENTRIEGETCOSIA SYSTEM WITH ORIGIN AT THE ORIGIN OF THE EMERTIAL SYSTEM? GCTCOSIS
14
15
16
                                                                                                          OCTC0816
         CoostsocomETHODS

C GIVEN A POINT OF GEGENTRIC LATITUDE AND LONGITUDE AND THE GCTC0016

C CURRENT HOUR ANGLE TOALGULATE THE ELEMENTS OF THE TRANSFORM GCTC0020
17
18
            CURRENT HOUR ANGLE TO ALGULATE THE ELEMENTS OF THE TRANSFORM GCTC0020 HATRIX COSTONATE TRANSFORMATION BY THIS MATRIX WILL TRANSFORM GCTC0020
20
       C THE COMPONENTS FROM AN INERTIAL RECTANGULAR SYSTEM TO A GCTC0021
C TOPOCENTRIC SYSTEM THE INERTIAL BOORDINATE SYSTEM IS DEFIRED ASSCTOOR22
C HAVING ITS ORIGIN AT THE BARTHY'S CENTER HITH THE X-AXIS IS THE GCTC0023
51
22
23
                   MAYING ITS ORIGIN AT THE BARTHYS CENTER HITM THE X-AXIS IN THE GCTC0823 DIRECTION OF THE FIRST PRINT OR ARIES, THE Y-AXIS IN THE GCTC0824 EQUATORTAL PLANE OD DEGREES COONTERCLOCKHISE FROM X AND THE Z-GCTC0825 AXIS DIRECTED TOHARDS THE ZENATH IN & RIGHT MANDED SYSTEMITHE GCTC0826 TOMOCONTRIC SYSTEM MAS ITS X-MIS DIRECTED TOWARDS THE GCTC0827 GENECHTEIS INPUT POINT, THE Z-AXIS DIRECTED TOWARD THE SAME GCTC0828 LATITUDE BUT AT $80 DEGREES FROM THE INPUT LONGITUSE AND THE Y-GCTC0829 AXIS MOSITIONED AS TO COMPLETE THE RIGHT WANDED SYSTEM.
24
25
26
          C
27
28
          C
29
30
31
                                                                                                          GCTC6831
          CoopeoopelMRAL
35
                                                                                                          GCTC0832
33
                                                                                                         GCYC0833
34
         C
                                       -PHE STATION'S MOUR ANGLE (RADIANS)
                                                                                                          GCTC0834
35
                                                                                                          GCTC0035
36
                                       -THE INDEX NOMBER OF THE STATION
                                                                                                          GCTC0836
37
                                                                                                          GCTC0837
38
          C
             NOS (12)
                                        -AR ARRAY CONTAINING THE STATION NUMBERS USED
                                                                                                          GCTC0838
39
                                                                                                          GCTC0839
                                     -THE NUMBER OF STATIONS USED IN THE RROGRAM GCTC0040
GCTC0040
GCTC0040
GCTC0040
GCTC0040
40
         C
         C $18567(42)
42
43
44
                      C08567(12)
                                        - COSINE OF TRACKING STATION'S GROCENTRIC CATITUDESCTC0044
45
                                                                                                         GCTC0845
86
                                                 OF ATROBATY GEOCENTRIC LATITUDE DURING
                      SIMLATITE
                                        -SINE
                                                                                                          GCTC0845
87
                                        -EMPERTHENTAL BERTOD
          C
                                                                                                          GCTC0847
48
                                                                                                          GCTC0848
                 COSLAT(Y)
       C
49
                                       -COSING OF ATREMANY GEOCENTRIC LATITUDE DURING
                                                                                                         GCYC0949
50
                                        -EXPERIMENTAL PERISO
                                                                                                          GCTC0090
51
                                                                                                          GC?C0851
52
                                                                                                          GCTC0852
93
         CB4604600UTPUT-
                                                                                                          GCTC6853
54
                                                                                                          SCTC0854
55
                  Ye8546(2'2)
                                       -PLEMENTS OF TRANSFORMATION MATRIX FROM THE
                                                                                                         GCYCee35
56
                                        "INERTIAL BYSTE" TO THE TOPOGENTRIC SYSTEM
                                                                                                          GCTC0856
57
                                                                                                          GCTC6057
58
          CoopeoneRESTRICTIONS.
                                                                                                         GC7C8858
99
                      NS CARROY BE GREATER THAN THELDES
```

	C PRANCA A SECULIA MONTA LACIDICA DE CALLACIA.	GCTC8860
	Coobsocosusprograms required- C note	GCTCee61
	7.00	GCTC0862 GCTC0863
	CHARGOODERD OF BOCUMENTATION CARBSVOORGOOGOOGOOGOOGOOGOOGOOGOOGOOGOOGOOGOOG	eGCTC0864
	C	GCTC0845
65	SUBROUTINE CHRICHAP J)	GCTC6666
67	COMMONIACKO JUSO NOS(12)	GCYCOB67
66	COMMON/SERVELY SINGLY(18) COSSET(12); SINSLNSEN) COSSEN(18)	GCTC6868
69	1 RVS(22)	GCTC8669
70	COMMON/SCREET/SINLATTY); COSCAT(7), SINLEN(7); COSLON(2), REALT)	GCTC0070
71	COMMON/BEKS /WX(128# WYVER) # WZ(82)# BAS12,71. C(12,7), JEND	GCYCee71
72	COMMON TYMETRES AGGREGAS.S)	GCTC0872
	C SHIP TO 28 IP TRANSFORMATION IS ON AJRCHAFY LOCATION AFTER RELEASE	GCTC0073
74	IF (J,GY, NOS(NS)) GC 78 11	GCTC8874
75	SINLY STUBLY (J)	GCTC0875
76	COSLY LOSULY(J)	GCTC0876
77	GO YO 12	GCTCQ377
78	SE SENLY ESTNLATIONES	GCTC8878
79	COST = COSTAT(JEND)	GCTC6879
	C DEFINE THE ELEMENTS OF THE TRANSFORMATION MATRIX	
28	EZ SINHA & SIN/HA)	GCTCG880
88		
	COSHA B COS(HA)	GCTC0082
83	AGGETS(1711 & COSLY . COSMA AGGETG(172) & COSLY . SINMA	96460083
85	AGDETATIES & COSLY . SINNA	GCTC0864
	AGG278(133) 6 SINLY	GCTCeess
86	AGC298 211 6 -SINHA	GCTC0000
	AGCZYBIZZZ & COSHA	GCTC6887
88	AGC278 (2.3)6 0.0	GCTC0888
89	AGERTE (JIE) + SINLY + COSMA	GCTCGSSP
90	AGC2701312 a SINLA SINHA	GC7C8890
91	AGCETE(SIS) + GOBLY	GC700091
92 93	RETURNS END	GC1 C6892 GC7C6893
70		GCTC8893
	WENDS OF HEMORY DEED BY THIS COMPILATION	
67906 01 09	-25-72 12,760 INERVIAL TO TOROGENTRIC TRANSCORMATION	
	**************************************	*****
PREF	AGE	
PROSEAN	BREAK 116	2 2 2 1
CORMON		
Y CHUNT	ā17S &	
PRIMARY S	AMDEL ENGIA	
GC2VC		e Hajor III
SECONDARY S	YNDSF ENTRY	
o no important		
BLBEK	LENGTH	
		e (1e) (1   1   1c
	19	
I BLMB		
S BPMB4		
3 BPM82	43	
S BPMB4	319	

SYMMER

```
6 COS
7 SIN
```

114 18 THE NEXT AVAILABLE LOCATION.

GMAP VERSION/ASSEMBLY DATES JMPA 630174/032311 JMRB 030
THERE WERE NO WARNING FLAGS IN THE ABOVE ASSEMBLY.

00 19292 WORDS OF NEWORY WERE USED BY GMAP FOR THES ASSEMBLY. JMRB 096871/052571 JMPC 050172/058571

67906 01 09-85-72	11,706	EARTH	SWADON GONSTRAINT
		4	BESSESSESSESSESSESSESSESSESSESSESSESSESS

2	CHARTM SHA	DOM SOMETRATAL	ILLUGSO
3	CHANGE START OF BOC		ILLUSSO
5	C		ILLU686
7	C		ILLUSE
9	Casaassas Lagguages Por		ILLUGGO
11	Cararramaghine-GE 6	25	1LLU081
12	Coossosspurpose.		ILLU081
13 14			ILLU091
15	C		ILLU681
17	C THIS SUBROUT	INE ASSUMES THAT THE BECLINATION OF THE SUN IS	ILLUnns
18	C FINED FOR THE	E CORRENT DAY, THIS ASSUMETION WILL HAVE AN ERROR OF	ILLU081
20	C PEGREES THE	SUBROUTINE FIRST TINDS THE SUBS DECLINATION AT	1110002
55	C CLOUD'S POST		ILLUeez
23	C REGION, IF SQ	THER THE TIME ENTERING AND LEAVING THIS REGION DUE	ILLU682 ILLU682
24	C TO THE SEBCE	NTREE POSITION OF THE GLOUD 23 FOUND, THE GLOUD'S	ILLU002
25	C GROWTH AND DI	RIFT AFTER RELEASE IS USED TO DEFINE THE	ILLU092
26	C ILLUMINATION C IS TO DEFINE		ILLU002
28	C EXECUDES THE		ILLUSSE
29	C		ILLUOSE
30	Cooseeee indRA.		ILLU003
32	C KYBAR	1.61 - 1.1.1.1.62 - 1.1.1.1.62 - 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	ILLU003
33	C		ILLU003
34 35	C I	-EURRENT NUMBER OF DAYS PAST JANUARY O OF INYEARS	1 L L U 0 0 3
36 37	C PH\$P		1 L L U 6 9 3
39	C SINCLY	-SING OF RELEASE POINT . S GEOGENTRIC LATETUDE	1LLU083
40	C COSCLY	-COSING OF MELEASE POINT S GEOCENTRIC LATETODE	ILLU003 ILLU004
42	C SWADOW	-RADIUS OF EARTH SWADOW REGION (RADIANS)	ILLU684
44	C GAMMA	-EGSINE OF INABOUT	1LLU894
46	C BRIFT	-THE SPACE-FIXED DRIFT OF GLOUD (DEG/MR)	1LLU984 1LLU984
47	C GHA	-GREENWICH MEAN SIDEREAL HOUR ANGLE AT ZERO HOURS	ILLU884
49	C	-UNIVERSAL TIME (HRS)	1140084
50 51	C AMBY15		ILLU005 ILLU005
52	C		144005
53 54	C AMS(2)	-DECLINATION OF THE SUN (RADIANS)	LLUOSS
55	C RTH	GONVERSION RACTOR PROM RADIANS TO HOURS	1LLU005
56	C		ILLUGES
57 58	Cooccoopyrputo		ILLUGES
59	C		!LLU005
60	C WINDOWS	> -THE DARLY RELEASE WINDOW START/STOP TIMES,	LLUSS
61	C	-18T INDEX FOR STORING START/STOP TIMES:	ILLUGGE
62	C		ILLUGGE
64	č		ILLU686 Illu686
65	C		LLUSSE
66	C	-SRD INDEX DOWNS (BORNALLY STATION NUMBER)	ILLUG96
67	C C		LLUGG
69	Co-so-oo!NVERNAL BAR		!LLU684
70	C		ILLUSET

```
71
                       61
                                             -TOTAL SPACEOFINED ANGULAR DISPLACEMENT DUE TO -CLOUD DRIET POT THE EXPERIMENTAL PERIOD.
                                                                                                                    ILLU0871
                                                                                                                     ILLU0872
73
                                                                                                                     !LLU0073
 74
                                              -ONE-MALF OF THE SPAGE-FIXED ANGULAR DISPLAGEMENTILLUS874
                                             -DUE TO CLOUD SHOWTH POR THE EXPERIMENTAL PERIOD-ILLU0975
 75
 76
 77
                                             -REGHT ASCENSION OF EASTH SWADOW GENTER (SADIANS) ILLUSETT
 78
 79
                         YO.
                                              -DECLINATION OF BARTH SHADOR SENTER (RADIANS)
                                                                                                                     ILLU0079
 80
                 BH1h5
 81
            C
                                             -LARGEST VALUE OF ELOUDIS DECLINATION DUE TO
 82
                                              -CLOUD GROWTH (WADSAMS)
                                                                                                                     ILLUSE82
 63
 84
                                             -SNALLEST HALUE OF CLOUD'S DECLINATION DUE TO
                                                                                                                     ILLUSES4
 85
                                             -BLOUD GROWTH (BADSANS)
                                                                                                                     ILLUSSS
 86
                                                                                                                    11100006
 87
                         57(3)
                                             -START TIME AS DALBULATED FOR EACH SIDE OF
 88
                                             -TRIANGLE MODEL OF CLOUD'S REGION.
 89
                                             -STOP TIME AS SAUCULATED FOR EACH SIDE OF
 90
            C
 91
                                             -TRIANGLE HOBEL OF CLOUDIS REGION.
 92
                                                                                                                    ILLU0092
 93
            Cassassas Balcilons
 94
                         ASSURACE OF OUTPUT AS DERINED ABOVE UNDER "METHOD";
 95
                                                                                                                     ILLU0895
 96
            CoopeoodeSUBPROGRAMS REQUIRED-
 97
 98
                                                                                                                    ILLUeess
                                   EPHEMERIS TABLES
 99
                                                                                                                    1LLU0899
100
                                                                                                                     ILLU0100
            Consequent OF BORUMENTATION CARDSHOODS OF CONSEQUENCES OF CONSECUENCES
101
102
                                                                                                                    ILLU6303
                     SUBROUTINE ILLUM(1)
103
                     COMMON/SLKX /KMONTH-KDAY _KYEAR _LMONTH_LDAY _LYEAR _KMOI RDA, ILLU0204

KYR, LMO7 LDA, LYR, ICALG, IPRT7, IPRT9, IPRT91-IPLOTILLU0209

COMMON/SLK81/SINCLT, EOSCLT, SINGLN, GOSCLN, RVC

04
106
107
                     COMMON/SCKE1/R(8)
108
                     COMMON/BLKE JOTR, RTD; HTR, HALFRE, RTH, AU, DELTA(4), ERM, DGMA ILLUGEOP
189
                     COMMON/BLKS/ SUNL, GHA
COMMON/BLKS/ SUNL, GHA
COMMON/BLKE /SHADOW
COMMON/BLKE /SHADOW
DOUBLE PRECISION DTR; RYB, HTB, HALPP!
DIMEMSION T(10)
110
111
                                                                                                                    16600311
112
                                                                                                                     1140812
113
                                                                                                                     1110813
114
                                                                                                                    1LLU0214
            DIMENSION ANS(12)
DIMENSION ST(3) STR(3)
C SETUP SUBSOUTINE CONSTANTS
115
                                                                                                                     ILLU0119
116
117
                                                                                                                    1LLU0217
118
                     C1
                              sR(6) . HTR
                                                                                                                    ILLU6218
119
                              ER(8)
                     CS
                                                                                                                    1440819
                              550RT(C1*C1 + C2+62)
120
                     C3
                                                                                                                    1110850
1.51
                     BRIDS PANIS 2 CS
                     bâing thhis - C5
122
123
                              S-1.DORLAMDAORTH
            UT SAMOD(OT#24,0)

IF (UT LTTO:) UT a UT a 28.8

C FIND HA AND DEEL OF SUN FOR LOCAL HIBWIGHT OF RELEASE POINT
124
                                                                                                                     ILLU0824
                                                                                                                                    7
125
                                                                                                                     ILLU0925
                                                                                                                                    0
126
                                                                                                                     11100126
127
                     CALL ROPPH (KYEAM, TOUTFANS)
                                                                                                                     ILLU0227
                                                                                                                                   11
            C CONVERT RA AND DECL OF SUN TO CENTER OF SHABOH
128
129
                              *ANS!19 +2.0+WALFR!
                                                                                                                                   12
130
                                                                                                                     1LLU6230
                                                                                                                                   13
            C INITIALIZE STERY, STOP VIMES TO 0; AND 84. RESPECTIVELY.
131
                                                                                                                     1LLU0131
132
                     DO 100 1 eg.8
                                                                                                                     ILLU0832
133
                     ST(1) 80.0
                                                                                                                     ILLUGESS
                                                                                                                                   15
               100 STP(1)624.5
DO 90 101.10
SO 7(1) #0.0
134
                                                                                                                     ILLU0834
                                                                                                                                   10
135
136
                                                                                                                                   19
                                                                                                                     ILLUSESS
137
            IF (PWIP = TO) 131.102/102

101 IF (Y0=PHIR2) 11.102.102

102 IF (ABS(PHIP2=Y0), LB; SMADOW) GO TO SI

IF (ABS(PHIP = YU); GY; SHADOW) GO TO SI

C FIND TIMES WHEN EARTH SWADOW RESIGN IS YANGSNY YO LINE 1,
                                                                                                                     ILLU6437
                                                                                                                                   21
138
                                                                                                                                   55
139
                                                                                                                     1140339
                                                                                                                                   59
140
                                                                                                                                   24
                                                                                                                     ILLU0340
141
                                                                                                                    ILLU0341
                                                                                                                                   27
142
                                                                                                                    ILLU0142
103
                              SAG A RISCHVDON\ER
                 II VIE
                                                                                                                                   30
                                                                                                                    ILLU6343
144
                              EVO - C1+SHADOW/EB
```

ILLU0344

```
ILLU0145
                                                                                                     1LLU0146
                                                                                                                  35
                                                                                                     ILLU0847
                                                                                                                  38
                                                                                                                  39
                                                                                                     1110848
                                                                                                                  40
                                                                                                                  41
                                                                                                     ILLU0250
                                                                                                     1110851
                                                                                                                  44
                                                                                                                  45
                                                                                                     ILLU0192
                   IF (##IP .67, V12) GALE EINE (80, VB. WHEP .0.007(J. T(J41))
                                                                                                                 49
                                                                                                     1140293
                                                                                                    1110199
                                                                                                                 50
                                                                                                                  53
                                                                                                     ILLU6156
                 3 CONTENSE

IF ((PMIP = Y12), GT, 8;) 80 TG 44

IF ((Y12) PMIP 2), GT, 8;) 80 TG 84

B12 = (C13) = -C2 NO -SWADO8-63; #61

TY2) = FF(C1/C2 - (PMIP MB22) - BLANDY; + RYH-GHA) / DGHA
                                                                                                     1110237
                                                                                                                  54
                                                                                                     1LLU0158
                                                                                                                  59
199
                                                                                                    1LLU0199
                                                                                                                  58
 160
191
                                                                                                    ILLU0141
                       (YEZ) LT:0, ) Y(Z) 0712) 0 24,9
 102
                                                                                                                 63
                                                                                                     ILLU8162
163
                                                                                                     ILLU6163
                                                                                                                 56
                   60 76 15
 164
                                                                                                                 67
                                                                                                    ILLU8364
               84 CONTIBUE
 165
                                                                                                                 66
                                                                                                     !LLU0265
                   IF (FUTP .67; Y12) CALE LIN1 (RO, YB, RHIP .0.0 FT(J), T(J+1))
 156
                                                                                                                 69
 167
                                                                                                     1140167
                                                                                                                 72
           1F (PW1F8;LT; Y12) CALL LINE (80.48, PW1P8, C1 . T(J), T(J41))
19 00 20 K-32J; Z
1F (TK); E0;0,) 00 TO 200
 160
                                                                                                                 73
                                                                                                     1170599
 169
                                                                                                     ILLU0169
                                                                                                                 76
 170
                                                                                                     1110270
                                                                                                                 77
             261 STP(1) = AMAN(STP(1), T(M-1))
SV(1) = AMAN(STP(1), T(M-1))
 171
                                                                                                     1LLU0171
                                                                                                                 80
                                                                                                                 81
 173
                                                                                                                 82
                                                                                                     1LLU0273
             GQ TO 200
202 STP(1) GENTNE(STP(1), T(K-1))
ST(1) GAMA81(ST(1), T(K))
 174
                                                                                                     1LLU0174
1LLU0175
                                                                                                                 85
 179
 176
                                                                                                                 85
             200 CONTINUE
IF (VII) E0:0.) GO TO 16
STP(1) SAHTNI(STP(1) T(8))
 177
                                                                                                     1LLU0277
                                                                                                                 84
 178
                                                                                                     ILLUGSTE
                                                                                                                 88
 179
                                                                                                     11401179
            ST(1) SANAS1(ST(1),T(1))

26 CONTINUE

IF (T(2),EG; U.) GO TO 26

STP(1) SANAS1(STP(1),T(2))

ST(1) SANAS1(ST(1),T(2))

81 DO 150 161.16
 180
                                                                                                                 92
                                                                                                     ILLU0280
 181
                                                                                                     ILLU0181
 182
                                                                                                     ILLU9182
 183
                                                                                                     ILLU0123
                                                                                                                 97
 184
                                                                                                     1LLU0184
1LLU0185
 185
 186
              150 7411 0000
                                                                                                     ILLU0186 800
 187
                                                                                                    1LLU0107 102
              1F (PHIPS-205 103-1849184
183 IF (VG-PHIR ) 22.104.184
184 IF (ABS(PHIP -VO).LE.SHADOW) 60 TO 22
IF (ABS(PHIPS-VO).EV.SHADOW) 60 IO 31
 188
                                                                                                     1LLU0288 503
 189
                                                                                                     ILLU0189 804
 140
                                                                                                     ILLU0290 409
 ĪŸĬ
                                                                                                    ILLU0191 ##8
           C FIND YTHE HUED BARTH SWADON REGION TO VANGENT TO LINE 2,
 185
               193
                                                                                                    ILLU0893 311
                                                                                                     1LLU0194 112
 195
                                                                                                     ILLU0199 213
 196
                                                                                                    ILLU0496 4.6
                   178
                                                                                                    ILLU0198 120
 199
                                                                                                    ILLU0199 121
 200
                                                                                                    1LLU0200 $22
 201
                   20 YD 26
                                                                                                    ILLU0201 129
               23 CONTINUE
                                                                                                    ILLU0202 426
 202
               ## CONTINUE

15 (BAID 175, AST CEFF FINT (80.48 WHILE '80.841(1)'1(147))

16 CONTINUE

17 (BAID 175, AST CEFF FINT (80.48 WHILE '80.841(1)'1(147))
                   TF (#8178,67,725) CELE FINS (80.48,845,61 01(10,1(145))
 502
 204
                                                                                                    1LLU0204 430
 205
                                                                                                     ILLU0205 331
 206
                                                                                                    ILLU0206 $34
ILLU0207 $35
 207
                   268
                                                                                                    ILLU8208 136
 210
                                                                                                    ILLU0809 439
 211
                                                                                                    1LLU0811 343
 212
                                                                                                    ILLU8212 444
ILLU8213 449
 213
 214
               25 CONTINUE
TF (BUTPS, 67, YZE) CALL LINE (XO, YS, RWIPS, C1 +T(J), T(J+1))
                                                                                                     ILLU8214 148
 216
                                                                                                     1LLU0215 149
1LLU0216 850
                          29 + 5
                                                                                                     ILLU0817 853
```

```
IF (PHIP .UT. Y22) CALL LINA (NO, YO, PHIP .0.00T(J), T(J41))
26 DO 300 Ko3od.2
IF (TIKALEG. 0.) GO TO 300
IF (TIKALEG. 0.) 306.300.302
301 STP(2) 05HIN1(STP(2), T(K))
 219
                                                                                               1LLU0218 354
                                                                                               ILLU0219 157
  550
                                                                                                1LLU0820 358
                                                                                                IFFA855 895
  351
  555
  228
                   STEED GAMAREESTEED, T(HOR)
                                                                                                ILLU0223 265
                   69 10 800
  224
                                                                                                ILLU8824 $64
              302 STP(2) BBHTN1 (STP(8), T(N-1))
                                                                                                ILLU0225 165
  333
  226
                   ST(2) 6484824ST(2). T(K))
                                                                                                1LLU0826 266
  227
              300 CONTIBUE
                                                                                                          867
                                                                                                ILLU0827
                   IP (T(1):E8:0.) 60 TO 87
STP(2) 04HTN1(STP(2),T(8))
                                                                                                ILLU0828 869
  538
  229
                                                                                                1LLU0229 172
                   S712) .AHA21(S7(2),7(1))
  230
                                                                                                ILLU0230 875
               27 CONTINUE
  231
                                                                                                ILLU0831 274
                   IF (762) Ed. 8.) GO TO 38
STP(2) GAMENI(STP(2), TIE))
  232
                                                                                               ILLU0232 175
  533
                   ST(2) sAMA21(ST(2), F(2))
  234
                                                                                                ILLU0234 379
            C FIND TIMES WHEN LINE 3 IS TANGENT TO BARTH SHADOW RESION
  239
                                                                                                1110833
  236
               31 CONTINUE
                                                                                                ILLU0236 $80
                   IF (ABS(PHIPS - YO) + LE. SHADON) GD TO 32
IF (ABS(PHIPS - YO) + LE. SHADON) GT TO 32
WINDOW(211+1) = 24.0
WINDOW(311+1) = 0.0
  237
                                                                                               ILLU0237 281
  228
                                                                                                1LLU0238
                                                                                                         384
  239
                                                                                                ILLU8239 487
  240
                                                                                               1LLU0240 888
  261
                   育をマリ発情
                                                                                               ILLU0241 189
               32 IF (Y8.LY.RHIP3) 00 to 33
IF (Y8.GY.RHIP2) G0 to 34
  242
                                                                                               ILLU0242 190
  543
                                                                                               ILLU0243 493
  244
                   731
                         E((X8 -CI +SHADON-RLAMBA) +RTH-GHA)/DGMA
                                                                                               ILLU8244 196
  245
                   732
                          e({XB =C1 =SHEDOW-RLAMBA)=STH-GHA}/DGHA
                                                                                               ILLU8245 997
                          *AHOD(731.24.8)
                                                                                               ILLU8246 198
ILLU8247 199
  246
                   731
  267
                   932
                          @AROD ( 732, 24, 0)
                  1F (781,L7,0.) 731 e 732 28.5

IF (782,L7,0.) 732 e 732 28.0

IF (781-732) 401,402,402
  248
                                                                                               ILLU8248 200
  249
                                                                                               1LLU0249 203
  250
                                                                                               ILLU0250 200
  251
             481 STP(3) 073%
                                                                                               ILLU0251 207
  252
                   ST(3) 8732
                                                                                               ILLU0292 208
  293
                   60 70 41
                                                                                               ILLU0253 209
  294
              482 STP(3) 4932
                                                                                               ILLU8254 210
  299
                   37131
                           8434
                                                                                               ILLU0255 211
                   60 TO 41
                                                                                               ILLU0256 212
  296
           C FIRST POINT OF CONTACT FOR THIS CASE IS WHEN YERMING
  257
                                                                                               ILLU0257
                          *PHIE3
  358
                                                                                               ILLU0258 213
                                                                                               ILLU0259 814
  259
               36 731
                          E((XE-E1+SORT(SHADOH-SHADOH-(Y-YO)+(Y-YO))-RLAMBA)+RTH
  260
                           went ; / DGHA
                 1
732
                                                                                               ILLUNZAG
  591
                          STING SCI -SORTISMADON-NAPON -(Y-YO) - (Y-YO) + GLAHDE) FRIH
                                                                                               ILLU0261 815
  295
                          AHDU (KHB.
                                                                                               ILLU0262
                  1
                   731
  253
                          =AROD(731424,0)
                                                                                               ILLU0263 216
                   732 SAMOD(732,24.8)

IF (781,LT:0.) 731 + 736 - 24.8
  264
269
                                                                                               ILLU0264 817
                                                                                               ILLU0265 218
            IF (TB2,[T'.0]) T32 e T32+ 28.0
C FIND DUT IF T34 AND T32 IS TIME FOR ENTERING OR LUAVING SHADOW
IF (T31eT32) 303:308:384
  599
                                                                                               ILLU0266 821
  267
                                                                                               ILLU6267
  200
                                                                                               ILLU8268 224
              303 STP(8) 073%
  259
                                                                                               ILLU0269 225
  270
                          8732
                   ST(3)
                                                                                               ILLU0270 R26
                   80 YO 41
  271
                                                                                               ILLU0271 227
  272
              384 STP(3) 4732
                                                                                               ILLU0272 828
  273
                   57(3)
                           8731
                                                                                               1LLU0273 229
                   80 YO 41
                                                                                               1LLU0274 830
  274
            C FERST POINT OF CONTACT FOR THIS CASE IS WHEN Y-PHIP2
  275
                                                                                               ILLU0275
                          SHIES
  276
                                                                                               !LLU0276 #31
                   GO TO 36
  277
                                                                                               ILLU0277 232
            C COMPUTE THE WINDOW FOR THE ENTIRE REGION COVERED BY THE CLOUD
  278
                                                                                               ILLU0278
               41 STARY SANAR1(57(4), 57(2))
  279
                                                                                               ILLU0279 233
                   STOP SAMINI(STP(11951P12))
  280
                                                                                               ILLU0280 234
                   WINDOWASTION MAMINE (STOP, STORS)
                                                                                               ILLU0281 235
  587
                   WINDOW(SILOI) TAMAXE(STARY, SY(3))
  595
                                                                                               ILLU0282 236
  283
                                                                                               ILLU0283 237
                                                                                               1LLU0284 838
  284
                   END
```

67906 01 09-25-72 11.777

EARTH SHADON CONSTRAINT

STREERHICH MEAN SIDEREAL HOUR ANGLE AT ZERO HOURSLINGORD

PREFASE

PROSEZEN BREEK 2019 COMMON LENGTH 8 V 68UNT 8195 9

PRIMARY SYNDEP ENTRY

AFEAM

SECONDARY SYNDEF ENTRY

		BFBCK	LENGTH
4	1	BLRA	21
	2	BLMB1	9
	3	BLHSS	2
	4	BLM81	18
	5	ALKA	28
-	6	BLHS	2
	7	SCHA	598
1	0 1	BPMP	\$

ZAMBEL

77 F188

12 30RV 13 RDSRH

30

GHA

2017 IS THE NEXT AVAILABLE LOCATIONS

SHAP VERSSON/ASSEMBLY DATES JMPA 090171/052971 JMPO 050171/052571 JMPC 050171/058571 THERE WERE NO WARNING FLASS IN THE ABOVE ASSEMBLY

THERE HERE NO WARNING FLASS IN THE ABOVE ASSEMBLY

67906 01 09-25-72 15.790 REPETITIVE BERTH SWADOW CALEULATIONS

1 CLINI REPETITIVE EARTH BRADOW CALGULATIONS LIN16801 2 LIN10803 CoopessorStary OF BOCUMENTATION CARDSociosessococcoccoccoccoccoccili10804 LIN10805 Co-seconasa WALLOPS VERSION OF 98/01/71 LIN10806 7 LIN10007 8 CacaseseLANGUAGE-FORTRAN IV LIN10000 LIN10809 10 Ceepececiaen ine. Huse LIN10910 11 LIN10011 13 Casacesepugeose. LIN10812 TO CALCOLATE THE POSSIBLE BELEASE TIMES FOR THE CLOUD LIN10813 14 C ILLUMINATION CONSTRAINT. LIN10814 15 Caeeeeeeekg&MQQe C LIN10815 LIN10816 17 THIS SUBROUTINE IS USED TO SOLVE THE POSSIBLE RELEASE TIME LIN18817 CALCULATIONS AS DEFINED IN SUPPONTING ILLUM USING AN EQUATION THAT IS COMMON TO MANY CASES OF THE PROBLEM, THIS ROUTINE IS 18 C LIN10818 19 LIN10819 20 USED TO SIMPLIFY THE MANIPULATIONS OF SUBROUTINE ILLUM. LIN18820 51 LIN18821 22 COSSSSSS NAA. LIN10822 23 LIN10823 C 24 XD -RIGHT ASCENSION OF EASTH SHADOW CENTER (BADIANS)LIN10824 25 C LIN10025 26 40 -DECLINATION OF BARTH SHADOW CENTER (RADIANS) LIN10825 C 27 LIN10827 LIN10828 28 SHADOW PRADIUS OF PARTH SHADOW REGION (RADIANS) 29 C LIN10929

25 21	C	-UNIVERSAL TIME (MRS)	LIM10831
	C		LIV10032
33	C DSAY	-MOURLY CHANGE FOR SIDEREAL TIME	LIV10033
36	C		LIV10834
23	C RTW	-EDNVERSION EASTER FROM RAUTANS TO HOURS	LIN10035
36	C		LIV10836
37	C RLAMDE	-LONGITUDE OF RELEASE ROINT (RABIANS)	LIV10837
38	5		LIN10838
39	C PHI	-DECLINATION OF INVERSECTING POINT FOR CASE IN	LIN10039
48	C	-QUESTION (RADIANS)	LIN10040
41	C		LIN10841
42	c c	-ARPLIBABLE CONSTAST FOR CLOUD BRIFT (RADRASS)	P1410847
43	<del>- c</del>	SHALT GUDTR PONSINGL . Bu CPOOR DETAIL (MEDINGS)	
88	č		LIN10843
			LIV10844
45	CB-89-990U7pU7-		LI410045
46	C		LIV18846
87	C 71	-POSSIBLE TIME OF RELEASE FOR CASE IN QUESTIONS	4RL1410847
48	c		LIV10048
49	C YZ	-POSSIBLE TIME OF RELEASE FOR CASE IN QUESTION	HRL1410849
50	5		LIV10050
51	CoeseeesSUSPROGRAMS	REQUIRED.	LIV10851
52	C NOME		LIV10052
53	C		
54	CresesesRESTRICTIONS		LIV10093
55	C NONE KNOWN		LIV10054
56	C Adde vision		LIV1005>
87		4E	L1416856
		IENTATION CARDSONOSONOSONOSONOSONOSONOSONOS	00LIV18857
58	C		LIV10858
59	SABBOALINE FLANS	(X0pY05PHI,E,T1,T2)	LIN10059
60	COMMODIVELKESY F		LI410060
61	COMMOS/BCKE \D	TR, RYD; MTR, HALFRY, RTH, AU, DELTA(4), ERM, DGHA	LIN18861
62	COMMON/BEKG /SI	JNL. GHA	LIN10842
63	COMMON/BLKL /SH	ADOW	LIV18865
64	DOUBLE PREZIBIO	DO DER, RED. MER. MALPPI	LIN10864
65		DOHOSHADON=(RHI-YT)+1941+YO)   4HTH/DGHA	LIV10865
66		MDA-Sjerth-GMA)/DZMA	LI 410066
67	TE STE STEMP		
68	TZ STE STEMP		LIN10067
69			LIN10868
		24,01	LIN10869
7.6		764,01	LI410070
78		75 e75 • 84.0	LI410071
71			
71 72	IF (TELT.6:) 1	72 872 • 84,0	LIV10072
71		72 =72 • 24,0	LIN10072 LIN10073

23657 WERDS OF MEMORY USED BY THIS COMPILATION

```
SECONDARY SANDEL ENLLA
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	Brask	LENGTH		
1	BLK93		8	
2	BUNA		28	
3	BLKS		2	
4	BUKP		8	

SVHREF

5 SORV
164 TS THE NEXT AVAILABLE LOCATION.
GMAP VERBSON/ASSEMBLY DATES JMPA 090174/052571 JMRH 090171/052571 
## 67908 01 09-85-72 12.808 SUMBOUTING ROEPH

SUBPROBITINE RDEPM(VEAR)DAY, ET, ANS		RDEP	SUBROUTINE RDEPM	RDEPOSOS
Commonstart Of DOCUMENTATION CARRES-Documents of the Sun Aday Mallors Version of 01/81/69  C	3		TRUTTINE REPRIVERS TAV. FT. ANG.	PDEP0802
S C  NASA/NALLOPS VERSION OF 01/81/69  C LANGUAGE - FBRTRAN IV  RDE  C LANGUAGE - FBRTRAN IV  RDE  C MACHINE - GE 625  11 C  RDEPH CBMPUTES THP SUN AND MONNER ROSITION VECTOR RDEPH CBMPUTES THE PRESENTLY AVAILABLE FOR THE YEARS 1972-1980 ROSITION CALLING SEQUENCE RDEPH (YEAR: DAY OF VEAR RDEPH CBMPUTES THE PAST THE EPOCH DATE (MGURS) ROSITION RADIANS) RDE RDEPH CBMPUTES THE SUN'S RIGHT ASCENSION (RAUIANS) RDE RDEPH CBMPUTES THE SUN'S RIGHT ASCENSION (RAUIANS) RDE RDEPH CBMPUTES THE SUN'S RIGHT ASCENSION (RAUIANS) RDE RDEPH CBMPUTES THE MONNER RIGHT ASCENSION (RAUIANS) RDE RDEPH CBMPUTES RIGHT ASCENSION (RAUIANS) RDE RDEPH CBMPUTES THE MONNER RIGHT ASCENSION (RAUIANS) RDE RDEPH CBMPUTES RIGHT ASCENSION (RAUIANS) RDE R		Sassas		-RDEP0005
6 C NAGAMALLORS VERSION OF 01/01/09  7 C C C C C C C C C C C C C C C C C C				
TO C LANGUAGE o FORTRAN IV SPECTOR STATE OF THE SUN AND MONTHS HOSITIUM VECTOR SPECTOR ROLL OF THIS ROUTINE USES A THIRD DEGREE POLYMONIAL TO INTERPOLATE SPECTOR SPEC			AGA ANALI OSC VERCION OF OS ASA ASO	RDEPOSOS
S C LANGUAGE - FORTRAN 1V  10 C MACHINE - GE 025  11 C PURPOSE  12 C PURPOSE  13 C ROPPH COMPUTES THE SUN AND MONNS' ROSITION VECTOR  15 C METHOD  16 C METHOD  16 C METHOD  16 C METHOD  16 C METHOD  17 C MO A DEBIRED ASCHARCY OF APPROXIMATELY 5 ARC SECONDS  18 C RESTRICTIONS  20 C RESTRICTIONS  21 C CALLIEG SEQUENCE  22 C GALL ROPPH (YEAR DAY, ET, ANS)  23 C CALLIEG SEQUENCE  24 C GALL ROPPH (YEAR DAY, ET, ANS)  25 C WEAR & THE VEAR NUMBER  30 C DAY & THE DAY OF VEAR  31 C GOTPUT  32 C ANS(1) & THE SUN'S RIGHT ASTENSION (RAUTANS)  33 C ANS(2) & THE SUN'S RIGHT ASTENSION (RAUTANS)  34 C ANS(2) & THE SUN'S RIGHT ASTENSION (RAUTANS)  35 C ANS(2) & THE SUN'S RIGHT ASTENSION (RAUTANS)  36 C ANS(2) & THE SUN'S RIGHT ASTENSION (RAUTANS)  37 C ANS(2) & THE MOON'S RADIUS VECTOR (A.U.)  38 C ANS(3) & THE MOON'S RADIUS VECTOR (A.U.)  39 C ANS(4) & THE MOON'S RADIUS VECTOR (A.U.)  40 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  40 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  40 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  40 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  40 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  41 C ANS(7) & THE MOON'S RADIUS VECTOR (A.U.)  42 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  43 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  44 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  45 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  46 C SUBPROGRAMS REQUIRED  47 C SUBPROGRAMS REQUIRED  48 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  49 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  40 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  40 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  41 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  42 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  44 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  45 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  46 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  47 C ANS(7) & THE MOON'S RADIUS VECTOR (A.U.)  48 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  49 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  40 C ANS(6) & THE MOON'S RADIUS VECTOR (A.U.)  40 C ANS(6) & THE MOON'S RADI			HARLAKS A-MAION OF OTLAITER	9DEP0007
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17 C YO A DESIMED ASCURACY OF APPROXIMATELY 5 ARC SECONDS DE 19 C RESTRICTIONS DATA IS PRESENTLY AVAILABLE FOR THE YEARS 1972-1989RDS 20 C REPMEMERIS DATA IS PRESENTLY AVAILABLE FOR THE YEARS 1972-1989RDS 22 C CALLING SEQUENCE RDE 23 C CALLING SEQUENCE RDE 25 C GALL RDEPMIVERAR DAY.ET.ANS) RDE 27 C INPUT RDE 28 C RDE 27 C INPUT RDE 28 C RDE 27 C INPUT RDE 29 C WEAR A THE VEAR NUMBER RDE 29 C WEAR A THE PHEMBERIS TIME PAST THE EPOCH DATE (MQURS) RDE 30 C DAY & THE DAY OF VEAR RDE 31 C BT & THE EPHEMBERIS TIME PAST THE EPOCH DATE (MQURS) RDE 32 C RDE 33 C RDIPUT RDE 35 C ANSIAS & THE SUN'S RIGHT ASCENSION (RAUSANS) RDE 35 C ANSIAS & THE SUN'S RADIUS VECTOR (A.U.) RDE 36 C ANSIAS & THE SUN'S RADIUS VECTOR (A.U.) RDE 37 C ANSIAS & THE HOURT RIGHT ASCENSION (RADIANS) RDE 40 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 41 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 42 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 42 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 42 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 44 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 44 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 44 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 44 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 44 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 45 C ANSIAS THE HOURT RIGHT ASCENSION (RADIANS) RDE 46 C SUBPRISON MARE(2) REPEACH ASCENSION (RADIANS) RDE 46 C SUBPRISON NAME(2) REPAIR ASCENSION (RADIANS) RDE 50 C NORTH REPAIR REPAIR ASCENSION (RADIANS) RDE 50 C REPAIR RADIUS REPAIR NAME REPAIR RADII) RDE 50 C REPAIR RADIUS REPAIR NAME REPAIR RADII) RDE 50 C REPAIR RADIUS RADIUS REPAIR RADIUS RADIUS RADIUS REPAIR RADIUS RA				ADEPOS15
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19 C RESTRICTIONS C SPMEMERIS DATA IS PRESENTLY AVAILABLE FOR THE YEARS 1972-198 9RDS 22 C RALLING SEQUENCE RDS 23 C CALLING SEQUENCE RDS 24 C RDEPH(YEAR, DAY, ET, ANS) RDS 25 C GALL RDEPH(YEAR, DAY, ET, ANS) RDS 26 C RDS 27 C INPUT RDS 28 C RDS 29 C WEAR & THE VEAR NUMBER RDS 30 C RDAY & THE DAY OF VEAR RDS 31 C RT & THE EPHEMERIS TIME PAST THE EPOCH DATE (MOURS) RDS 31 C RT & THE EPHEMERIS TIME PAST THE EPOCH DATE (MOURS) RDS 32 C RDS 33 C RDYPUT RDS 34 C RDS 35 C RAS(1) & THE SUN'S RIGHT ASCENSION (RADIANS) RDS 36 C RAS(2) & THE SUN'S ROBLINATION (RADIANS) RDS 37 C RAS(3) & THE SUN'S ROBLINATION (RADIANS) RDS 38 C RAS(4) & THE SUN'S ROBLINATION (RADIANS) RDS 40 C RAS(4) & THE MOUNTS RIGHT ASCENSION (RADIANS) RDS 41 C RAS(7) & THE MOUNTS RIGHT ASCENSION (RADIANS) RDS 42 C RAS(4) & THE MOUNTS RIGHT ASCENSION (RADIANS) RDS 43 C RAS(5) & THE MOUNTS RIGHT ASCENSION (RADIANS) RDS 44 C RAS(7) & THE MOUNTS RIGHT ASCENSION (RADIANS) RDS 45 C RAS(4) & THE MOUNTS RADIUS RECTOR (LAU) 46 C RDS 47 C RAS(6) & THE MOUNTS RADIUS RECTOR (LAU) 47 C RAS(7) & THE MOUNTS RADIUS RECTOR (LAU) 48 C RAS(6) & THE MOUNTS RADIUS RECTOR (LAU) 49 C RAS(6) & THE MOUNTS RADIUS RECTOR (LAU) 40 C REPROCATANS REQUIRED 40 C ROBROOTINE TABLE 50 C ROBROOTINE TABLE 51 RESERVER; DAY, VR; VRLAST 52 DIMENSION NAME(9) 53 DIMENSION NAME(9) 54 DOUBLE PRECISION OF ROBROOTINE RECTOR (RADIANS) 55 DOUBLE PRECISION REPROCATOR (LAST), PY(2) 56 COMMON /FRRD(K/ Y, 1) 57 DAYA PI//JA4592653589793233D 01/ 58 DAYA PI//JA4592653589793233D 01/ 59 DAYA PI//JA4596WYEAR72,6MYEARPA,6MY			AD & BEDIUSE WECHINGLA BY SELECTION S WIC SECONDS	RDEP0817
20 C 21 C SPMEMERIS DATA IS PRESENTLY AVAILABLE FOR THE YEARS 1972-198 (ROS 22 C CALLING SEQUENCE RDE 22 C CALLING SEQUENCE RDE 23 C CALLING SEQUENCE RDE 24 C RDE 25 C GALL RDEPH(YEAR, DAY, ET, ANS) RDE 27 C INPUT RDE 27 C INPUT RDE 28 C RDE 29 C WEAR & THE VEAR NUMBER RDE 30 C DAY & THE DAY OF VEAR RDE 31 C BT & THE EPHEMBRIS TIME PAST THE EPOCH DATE (MOURS) RDE 32 C RDE 33 C RDIVE (MOURS) RDE 32 C RDE 33 C RDIVE (MOURS) RDE 35 C RDIVE (MOURS) RDE 36 C RDIVE (MOURS) RDE 37 C RDIVE (MOURS) RDE 38 C RDIVE (MOURS) RDIVE (MOURS) RDE 38 C RDIVE (MOURS) RDIVE (MOURS) RDE 38 C RDIVE (MOURS) RDIVE (MOURS) RDIVE (MOURS) RDE 38 C RDIVE (MOURS) RDIVE RDIVE (MOURS)				PDEP0018
Ti			ESTRICTIONS	3DEP0019
22 C 23 C CALLING SEGUENCE ROB 24 C GALL RDSPH(YEAR:DAY,ET,ANS) 25 C GALL RDSPH(YEAR:DAY,ET,ANS) 26 C ROB 27 C IMPUT 28 C ROB 29 C WEAR & THE VEAR NUMBER 30 C DAY R THE DAY OF WEAR 31 C ST R THE EPHEMBRIS TIME PAST THE EPOGM DATE (MOURS) 32 C ROB 33 C GUYPUV 30 C ANS(1) & THE SUN'S RIGHT ASCENSION (RAUIANS) 35 C ANS(2) & THE SUN'S RIGHT ASCENSION (RAUIANS) 36 C ANS(3) & THE SUN'S RADIUS VECTOR (A,U.) 37 C ANS(3) & THE SUN'S RADIUS VECTOR (A,U.) 38 C ANS(4) & THE MOON'S RIGHT ASCENSION (RADIANS) 38 C ANS(4) & THE MOON'S RIGHT ASCENSION (RADIANS) 39 C ANS(4) & THE MOON'S RADIUS VECTOR (A,U.) 40 C ANS(4) & THE MOON'S RIGHT ASCENSION (RADIANS) 42 C ANS(4) & THE MOON'S RELINATION (RADIANS) 44 C ANS(4) & THE MOON'S RADIUS VECTOR (EASTH RADII) 45 C ANS(4) & THE MOON'S RADIUS VECTOR (EASTH RADII) 46 C SUBPROGRAMS MEQUIRED 47 C SUBPROGRAMS MEQUIRED 48 C ANS(4) & THE MOON'S RADIUS VECTOR (EASTH RADII) 49 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 40 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 40 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 41 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 42 C ANS(2) & THE MOON'S RADIUS VECTOR (EASTH RADII) 43 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 44 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 45 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 46 C SUBPROGRAMS MEQUIRED 47 C SUBPROGRAMS MEQUIRED 48 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 49 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 40 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 41 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 42 C ANS(2) & THE MOON'S RADIUS VECTOR (EASTH RADII) 43 C ANS(2) & THE MOON'S RADIUS VECTOR (EASTH RADII) 44 C ANS(1) & THE MOON'S RADIUS VECTOR (EASTH RADII) 45 C ANS(2) & THE MOON'S RADIUS VECTOR (EASTH RADII) 46 C ANS(2) & THE MOON'S RADIUS VECTOR (EASTH RADII) 47 C ANS(2) & THE MOON'S RADIUS VECTOR (EASTH RADII) 48 C C ANS(2) & THE MOON'S RADIUS VECTOR (EASTH RADII) 49 C ANS(2) & THE MOON'S RADIUS VECTOR (A,U.) 49 C ANS(2) & THE MOON'S RADIUS VE				RDEPOSEO
23 C CALLING SEQUENCE  24 C GALL RDEPH(YEAR, DAY, ET, ANS)  25 C GALL RDEPH(YEAR, DAY, ET, ANS)  26 C TIMPUT  28 C TIMPUT  29 C VEAR & THE VEAR NUMBER  30 C DAY & THE DAY OF VEAR  31 C ST & THE EPHEMER'S TIME PAST THE EPOCH DATE (MOURS)  32 C TOTAL THE SUN'S RIGHT ASCENSION (RADIANS)  34 C ANS(1) & THE SUN'S RIGHT ASCENSION (RADIANS)  35 C ANS(2) & THE SUN'S DECLINATION (RADIANS)  36 C ANS(3) & THE SUN'S RADIUS VECTOR (A.U.)  38 C ANS(4) & THE MOON'S RADIUS VECTOR (A.U.)  40 C ANS(4) & THE MOON'S RADIUS VECTOR (A.U.)  41 C ANS(4) & THE MOON'S RADIUS VECTOR (EASTH RADIANS)  42 C ANS(5) & THE MOON'S RADIUS VECTOR (EASTH RADII)  44 C ANS(5) & THE MOON'S RADIUS VECTOR (EASTH RADII)  45 C ANS(5) & THE MOON'S RADIUS VECTOR (EASTH RADII)  46 C SUSPROCRAMS ECULRED  47 C SUSPROCRAMS ECULRED  48 C SUSPROCRAMS ECULRED  48 C CONSOCIOLATION (RADIANS)  49 CONSOCIOLATION (RADIANS)  40 C ANS(5) & THE MOON'S RADIUS VECTOR (EASTH RADII)  40 C ANS(5) & THE MOON'S RADIUS VECTOR (EASTH RADII)  41 C ANS(5) & THE MOON'S RADIUS VECTOR (EASTH RADII)  42 C ANS(5) & THE MOON'S RADIUS VECTOR (EASTH RADII)  43 C ANS(5) & THE MOON'S RADIUS VECTOR (EASTH RADII)  44 C ANS(6) & THE MOON'S RADIUS VECTOR (EASTH RADII)  45 C SUSPROCRAMS ECULRED  46 C SUSPROCRAMS ECULRED  47 C SUSPROCRAMS ACCUMENTATION CARDSOCOLOGOROGOROGOROGOROGOROGOROGOROGOROGOROG			SPHEMERIS DAYA IS PRESENTLY AVAILABLE FOR THE YEARS 1972-196	0RDEP0821
### C #### GALL #############################				ADEN0855
### 25			ALLING SEQUENCE	RDEPoez3
TO C INPUT  28 C VEAR & THE VEAR NUMBER  29 C VEAR & THE DAY OF VEAR  30 C DAY & THE DAY OF VEAR  31 C ST & THE EPHSHER'S TIME PAST THE EPOCH DATE (HQURS) RDE  32 C RDE  34 C OUVPUY  35 C ANS(1) & THE SUN'S RIGHT ASCENSION (RADIANS) RDE  35 C ANS(2) & THE SUN'S RECLINATION (RADIANS) RDE  36 C ANS(2) & THE SUN'S RADIUS VECTOR (A,U.) RDE  37 C ANS(3) & THE SUN'S RADIUS VECTOR (A,U.) RDE  40 C ANS(4) & THE HOOM'S RIGHT ASCENSION (RADIANS) RDE  41 C ANS(7) & THE HOOM'S RIGHT ASCENSION (RADIANS) RDE  42 C ANS(6) & THE MOOM'S DESLINATION (RADIANS) RDE  43 C ANS(6) & THE MOOM'S DESLINATION (RADIANS) RDE  44 C ANS(6) & THE MOOM'S RADIUS VECTOR (EASTM RADII) RDE  45 C ANS(6) & THE MOOM'S RADIUS VECTOR (EASTM RADII) RDE  46 C SUBPROGRAMS REQUIRED RDE  47 C SUBPROGRAMS REQUIRED RDE  48 C RDE  49 CONSECUENT DE BOCUMENTATION CARDSONOLOGICAL RDE  49 CONSECUENT DE BOCUMENTATION CARDSONOLOGICAL RDE  50 C SUBPROGRAMS REQUIRED RDE  51 INTESER YEAR, DAY, YR; YRLAST  52 DIHEMBION NAME(9)  53 DIMEMBION NAME(9)  54 DOUBLE PRECISION PI  COMMON /EPHBLK/ Y, 1  DOUBLE PRECISION PI  COMMON /EPHBLK/ Y, 1  DATA DIAME/ 6NYEAR7296HYEAR73,6MYEARP4,6MYEAR75,6MYEAR76,6MYEAR77, RDE  57 DATA DIAME/ 6NYEAR7296HYEAR73,6MYEARP4,6MYEARP5,6MYEAR76,6MYEAR77, RDE  59 DATA DATA PI, 314, 4592653589793233D 01/  DATA DATA PI, 314, 5592653589793233D 01/  DATA DATA PI, 314, 5592653589793233D 01/  DATA DATA PI, 314, 5592653589793233D 01/  DATA DATA PI, 314, 559265358979323BD 01/  DATA DATA PI, 314, 5592653589979323BD 01/  DA				RDEP0024
27 C INPUT  28 C VEAR & THE VEAR NUMBER  30 C DAY & THE DAY OF VEAR  31 C DAY & THE DAY OF VEAR  31 C DAY & THE DAY OF VEAR  32 C DUTPUT  33 C DUTPUT  34 C DUTPUT  35 C ANS(1) & THE SUN'S RIGHT ASCENSION (RADIANS)  36 C ANS(2) & THE SUN'S RIGHT ASCENSION (RADIANS)  37 C ANS(3) & THE SUN'S RADIUS VECTOR (A.U.)  39 C ANS(3) & THE SUN'S RADIUS VECTOR (A.U.)  39 C ANS(4) & THE SUN'S RADIUS VECTOR (A.U.)  39 C ANS(6) & THE HOON'S RESULTATION (RADIANS)  40 C ANS(6) & THE HOON'S RESULTATION (RADIANS)  41 C ANS(6) & THE HOON'S RESULTATION (RADIANS)  42 C ANS(6) & THE HOON'S RADIUS VECTOR (EASTH RADII)  43 C ANS(6) & THE HOON'S RADIUS VECTOR (EASTH RADII)  44 C ANS(6) & THE HOON'S RADIUS VECTOR (EASTH RADII)  45 C ANS(6) & THE HOON'S RADIUS VECTOR (EASTH RADII)  46 C SUBPROCATIVE TABLE  48 C ANS(15-12) & THE HOON'S RADIUS VECTOR (EASTH RADII)  48 C ANS(15-12) & THE HOON'S RADIUS VECTOR (EASTH RADII)  50 C SUBPROCATIVE TABLE  51 INTEGER YEAR; DAY, YR; YRLAST  52 DIMEMBION NAME(9)  53 DIMEMBION NAME(9)  54 DOUBLE PRECISION BEYA; X, Y, SUM'S DIF  55 DOUBLE PRECISION DI  56 COMMON /EPROKY /, !  57 DAYA PI; 314,55720535A9793233D 01/  58 DAYA PI; 314,55720535A9793233D 01/  59 DAYA PI; 314,55720535A9793233D 01/  50 DAYA PI; 314,55720535A9793233D 01/  51 DAYA PI; 314,55720535A9793233D 01/  52 DAYA PI; 314,55720535A9793233D 01/  53 DAYA PI; 314,55720535A9793233D 01/  54 DAYA PI; 314,55720535A9793233D 01/  55 DAYA PI; 314,5572053A9793233D 01/  56 DAYA PI; 314,5572053A9793233D 01/  57 DAYA PI; 314,5572053A9793233D 01/  58 DAYA PI; 31			GALL RDEPH(VEAR, DAV. ET. ANS)	RDEPORZS
Z8 C  29 C WEAR & THE VEAR NUMBER  30 C DAV & THE DAY OF WEAR  31 C ST & THE EPHEMBRIS TIME PAST THE EPOCH DATE (HOURS)  32 C OUTPUY  34 C ST & THE EPHEMBRIS TIME PAST THE EPOCH DATE (HOURS)  35 C OUTPUY  36 C ANS(2) & THE SUN'S RIGHT ASCENSION (RADIANS)  37 C ANS(3) & THE SUN'S DECLINATION (RADIANS)  38 C ANS(4) & THE SUN'S RADIUS WECTOR (A,U,)  39 C ANS(6) & THE HOUNTS RIGHT ASCENSION (RADIANS)  40 C ANS(7) & THE HOUNTS RIGHT ASCENSION (RADIANS)  42 C ANS(6) & THE HOUNTS RIGHT ASCENSION (RADIANS)  43 C ANS(6) & THE HOUNTS RIGHT ASCENSION (RADIANS)  44 C ANS(6) & THE HOUNTS RIGHT ASCENSION (RADIANS)  45 C ANS(6) & THE MOONTS DECLINATION (RADIANS)  46 C ANS(6) & THE MOONTS RADIUS WECTOR (EASTH RADII)  47 C ANS(6) & THE MOONTS RADIUS WECTOR (EASTH RADII)  48 C ANS(6) & THE MOONTS RADIUS WECTOR (EASTH RADII)  49 COMMON SERVICES OF THE SUN ON (ERRORS OF THE SUN ON (ERROR				RDEP0826
29 C			NPUT	PDEP0827
TO C DAY & THE DAY OF YEAR  31 C ST & THE EPHEMBR'S TIME PAST THE EPOCH DATE (MQURS) ADE  32 C C COUPPLY  33 C COUPPLY  34 C ANS(1) & THE SUN'S RIGHT ASCENSION (RADIANS)  35 C ANS(2) & THE SUN'S RECLINATION (RADIANS)  36 C ANS(3) & THE SUN'S RADIUS VECTOR (A,U.)  37 C ANS(3) & THE SUN'S RADIUS VECTOR (A,U.)  38 C ANS(3) & THE HOON'S RIGHT ASCENSION (RADIANS)  40 C ANS(6) & THE HOON'S RIGHT ASCENSION (RADIANS)  41 C ANS(7) & THE HOON'S RIGHT ASCENSION (RADIANS)  42 C ANS(8) & THE HOON'S RESULTION (RADIANS)  43 C ANS(8) & THE HOON'S RADIUS VECTOR (EASTH RADII)  44 C ANS(8) & THE HOON'S RADIUS VECTOR (EASTH RADII)  45 C ANS(7) & THE HOON'S RADIUS VECTOR (EASTH RADII)  46 C SUBPROGRAMS REQUIRED  47 C SUBPROGRAMS REQUIRED  48 C SUBPROGRAMS REQUIRED  49 COMMONITOR TABLE  50 INTEGER YEAR; DAY, YR; YRLAST  51 DIMENSION NAME(9)  52 DIMENSION NAME(9)  53 DIMENSION NAME(9)  54 DOUBLE PRECISION BEVA; X, Y, SUM'S DIF (2)  55 DOUBLE PRECISION PI  56 COMMONITOR PROCESSESSON (AMYEAR PA, 6MYEAR PA, 6MYE	28	C		RDEPOS28
30 C DAY & THE DAY OF WEAR  31 C ST & THE EPHEMBR'S TIME PAST THE EPOGE DATE (MQURS)  32 C C C C C C C C C C C C C C C C C C C			VEAR & THE YEAR NUMBER	SDEP0829
31 C ST # THE EPHEMBRIS TIME PAST THE EPOCH DATE (MGURS) RDE 32 C RDE 34 C RDE 35 C ANS(1) & THE SUN'S RIGHT ASCENSION (RADIANS) RDE 35 C ANS(2) & THE SUN'S RECLINATION (RADIANS) RDE 36 C ANS(3) & THE SUN'S RADIUS VECTOR (A.U.) RDE 37 C ANS(3) & THE SUN'S RADIUS VECTOR (A.U.) RDE 40 C ANS(4) & THE HOURTS RISHT ASCENSION (RADIANS) RDE 41 C ANS(7) & THE HOURTS RISHT ASCENSION (RADIANS) RDE 42 C ANS(8) & THE MOON'S DECLINATION (RADIANS) RDE 43 C ANS(8) & THE MOON'S RADIUS VECTOR (EASTM RADII) RDE 44 C ANS(8) & THE MOON'S RADIUS VECTOR (EASTM RADII) RDE 45 C ANS(16-12) & THE HOURTS RESULTATION (RADIANS) RDE 46 C SUBPROGRAMS REQUIRED RDE 47 C SUBPROGRAMS REQUIRED RDE 48 C SUBPROGRAMS REQUIRED RDE 49 COMMONIS PROCESSION RESULTATION CARRESON COMMONIS PROCESSION ROSE 50 C SUBPROGRAMS REQUIRED RDE 51 INTEGER YEAR; DAY, YR; YRLAST RDE 52 DIMEMSION NAME(9) 53 DIMEMSION NAME(9) 54 DOUBLE PRECISION RETAIL Y, Y SUMN DIF 55 DOUBLE PRECISION RETAIL Y, Y SUMN DIF 56 COMMON /EPROCK/ Y, I 57 DATA PRICISION RETAIL Y, Y SUMN DIF 58 DATA PARE/ 6NYEAR7206HYEAR7318HYEARP4,6MYEAR75,6MYEAR76.6MYEAR77. RDE 50 C RDS 51 DATA PARE/ 6NYEAR7206HYEAR7318HYEARP4,6MYEAR75,6MYEAR76.6MYEAR77. RDE 57 DATA PARE/ 6NYEAR7306MYEAR79,6MYEAR75,6MYEAR750,6MYEAR77.	30	C	DAY a THE DAY OF YEAR	RDEP0930
32 C 33 C 007PUY 34 C 35 C 007PUY 36 C 007PUY 36 C 007PUY 36 C 007PUY 36 C 007PUY 37 C 007PUY 38 C 007PUY 39 C 007PUY 40 C 007PUY 41 C 007PUY 42 C 007PUY 42 C 007PUY 43 C 007PUY 44 C 007PUY 45 C 007PUY 46 C 007PUY 47 C 07PUY 48	31	C	ST a THE EPHSMERIS TIME PAST THE EPOSM DATE (MOURS)	RDEPOS31
ST	32	C		RDEPOS32
### ### ##############################			DYPUY	RDEP0035
S5				RDEP0834
36 C			ANS(1) & THE SHN'S RIGHT ASCENSION (RADIANS)	RDEP0035
37 C ANS(3) 6 THE SUN'S RADIUS VECTOR (A,U,) 38 C RDE 39 C ANS(4-6) 8 THE INERTIAL X, Y. Z COURDINATES OF THE SUN (AU) RDE 40 C ANS(7) 6 THE HOOMTS RIGHT ASCENSION (RADIANS) RDE 42 C ANS(8) 9 THE MOON'S DECLINATION (RADIANS) RDE 43 C ANS(9) 8 THE MOON'S RADIUS VECTOR (EASTH RADII) RDE 44 C ANS(9) 8 THE MOON'S RADIUS VECTOR (EASTH RADII) RDE 45 C ANS(15-12) 8 THE INERTIAL X, YP Z GOORDINATES OF THE MOON (ERRDE 46 C SUBPROCRIME REDUIRED RDE 47 C SUBPROCRIME TABLE 48 C RDE 49 COORDOOGEND OF BOCUMENTATION CARBSOOOSSOOOSSOOOSSOOOSSOOOSSOOOSSOOOSSO				RDEPOS36
38 C 39 C ANS(4=6) = THE INERTIAL %, V. Z COGRDINATES OF THE SUN (AU) RDE 40 C ANS(7) = THE HOURTS RISHY ASCENSION (RADIANS) RDE 42 C ANS(8) # THE MOUNTS RESULTATION (RADIANS) RDE 43 C ANS(8) # THE MOUNTS RADIUS MECTOR (EASTM RADII) RDE 44 C ANS(9) * THE MOUNTS RADIUS MECTOR (EASTM RADII) RDE 45 C ANS(16=12) # PMF INERTIAL %, V# Z GOORDINATES OF THE MOON (ERRDE 46 C SUBPROGRAMS REQUIRED RDE 47 C SUBPROGRAMS REQUIRED RDE 48 C 49 CSOUGHOUSTINE TABLE C RDE 50 C 51 INTEGER YEAR, DAY, YR; YRLAST DIMENSION NAME(9) DIMENSION NAME(9) DIMENSION NAME(9) DIMENSION NAME(9) 53 DOUBLE PRECISION DETA(24), Y(4), SUM(2), DIF(2) RDE 54 DOUBLE PRECISION DETA(24), Y(4), SUM(2), DIF(2) RDE 55 DOUBLE PRECISION PI COMMON /EPROLK/ Y, I RDE 56 COMMON /EPROLK/ Y, I RDE 57 DAYA RI/;3(4)592653589793238D 01/ RDE 58 DAYA PI/;3(4)592653589793238D 01/ RDE 60 C				RDEP0037
39   C				RDEP0038
### ### ##############################			ANSIGES THE INFESTIAL S. V. Z COORDINATES OF THE SUN PAUL	9DEP0839
### C ################################				RDEP0840
42 C ANS(8) # THE MOON'S DEELINATION (RADIANS) RDE 43 C ANS(9) * THE MOON'S RADIUS **ECYOR** (EASTH RADII) RDE 44 C ANS(15+12) = PMF INERTIAL X; Vy Z GOORDINATES OF THE MOON (ERRDE 45 C SUBPROGRAMS REQUIRED RDE 46 C SUBPROGRAMS REQUIRED 48 C RDE 48 C RDE 49 C			ANS/7) 5 THE HOON'S RIGHT ASCENSION (RADIANS)	RDEPOS41
43 C ANS(9) & THE MGGNVS RADIUS VECTOR (EASTH HADII) RDE 44 C ANS(15=12) = THE INERTIAL X; Vy Z GOORDINATES OF THE MOON (ERRDE 45 C SUBPROGRAMS REQUIRED RDE 47 C SUBPROUTINE TABLE 48 C 49 C COORDINATES OF THE MOON (ERRDE 50 C 51 INTEGER YEAR; DAY, YR; YRLAST 52 DIMENSION NAME(9) 53 DIMENSION NAME(9) 54 DOUBLE PRECISION PETAL24), Y(4), SUM(2), DIF(2) 55 DOUBLE PRECISION PI 56 COMMON /EPROLK/ Y; I 57 DAYA PI/3141572653589793238D 01/ 58 DAYA PI/3141572653589793238D 01/ 59 DAYA PI/3141572653589793238D 01/ 59 DAYA PI/3141572653589793238D 01/ 59 COMMON /EPROLK/ Y; I 50 CC RDE 50 CC RDE 50 CC RDE 51 COMMON /EPROLK/ Y; I 52 COMMON /EPROLK/ Y; I 53 COMMON /EPROLK/ Y; I 54 COMMON /EPROLK/ Y; I 55 COMMON /EPROLK/ Y; I 56 CC RDE 57 COMMON /EPROLK/ Y; I 58 COMMON /EPROLK/ Y; I 59 COMMON /EPROLK/ Y; I 50 CC RDE 50 CC RDE 50 CC RDE 51 COMMON /EPROLK/ Y; I 52 COMMON /EPROLK/ Y; I 53 COMMON /EPROLK/ Y; I 54 COMMON /EPROLK/ Y; I 55 COMMON /EPROLK/ Y; I 56 CC RDE 57 COMMON /EPROLK/ Y; I 58 COMMON /EPROLK/ Y; I 59 COMMON /EPROLK/ Y; I 60 CC RDE 60 CC RDE 60 CC RDE 61 COMMON /EPROLK/ Y; I 60 CC RDE 61 CC RDE 62 CC RDE 63 CC RDE 64 CC RDE 65 CC RDE 65 CC RDE 66 CC RDE 66 CC RDE 66 CC RDE 67 CC RDE 67 CC RDE 67 CC RDE 67 CC RDE 68 CC RDE 69 CC RDE 69 CC RDE 60 CC RDE 6				RDEP0042
44 C ANS(16=12) = PMF INERTIAL X; YF Z GOORDINATES OF THE MOON (ERRDE 46 C SUBPROGRAMS REQUIRED RDE 37 C SUBPROUTINE PABLE RDE 48 C RDE 50 DIMENSION NAME(9) RDE 50 DIMENSION NAME(9) RDE 50 DIMENSION NAME(9) RDE 50 DIMENSION XNS(12), BETA\(124\), \(1				RDEP0043
### ANS(16p12) = THE INERTIAL X; Vy Z GOORUINATES OF THE MOBN (ERRDE ACC SUBPROCRIME REQUIRED RDE ACC SUBROUTINE TABLE RDE ACC SUBROUTINE TABLE RDE ACC SUBROUTINE TABLE RDE ACC SUBROUTINE TABLE RDE ACC RDE		-	masses a tite commission and the section females where t	RDEP0844
### C SUBPREGRAMS REQUIRED ####################################			ANS(16:12) - THE INCESTAL WE VE 7 CONFUINATED OF THE MOON (C.	
### C SUBROUTINE TABLE RDE  ###################################			BEPRACRAME REQUIRED	RDEP0846
48 C 49 CeeeeeeEND OF DOCUMENTATION CARRSCOORSECEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE			SHEROUTINE TARES	RDEP0847
### Cooscooleng OF BOCUMENTATION CARRESCOOLS COORD COO			AAA(11   WARE	RDEP0848
### 1			OF DOCUMENTATION CARDESSON STREET	**************************************
INTEGER YEAR; DAY. XR; YRLAST   RDE	50		ш.я v. вАсельи ім і том приставляющей в пр	*DEP0850
DIMENSION NAME(9)  DIMENSION NAME(9)  DIMENSION NAME(12), BETA 124), V(4), SUM(2), DIF(2)  RDE  DOUBLE PRECISION BEVA; X, Y, SUM, DIF  RDE  DOUBLE PRECISION PI  RDE  COMMON /EPHBEK/ Y, I  RDE  DAVA PI/3141592653589793238D 01/  RDE  COMMON / RDE  RDE		-	MTERES WEED! DAY, MOT UNIARD	
DIMENSION ANS(12), BETA124), V(4), SUM(2), DIF(2)  DOUBLE PRECISION BEVA; X, Y, SUM, DIF  DOUBLE PRECISION PI  COMMON /EPHBEK/ Y, I  DATA PI/3141592653589793238D 01/  DATA PI/3141592653589793238D 01/  DATA PI/3141592653589793238D 01/  BOS C  ONYEAR7896WYEAR74,6MYEAR75,6HYEAR74,6MYEAR76,6HYEAR77, RDE  ONYEAR7896WYEAR79,6MYEAR80/,1LAST/0/, YRLAST/0/  RDE				RDEP0851
### ##################################				9DEP0052
DOUBLE PRECISION PI  COMMON /EPROEK/ Y, 1  DATA PI/3141592653589793238D 01/  DATA NAME/ 6NYEAR72#6HYEAR73.6HYEAR74.6MYEAR75.6HYEAR77. RDE  60 C  RDE  RDE  RDE  RDE  RDE  COMMON / RDE  RDE  RDE  COMMON / RDE  RDE  RDE  RDE  RDE  RDE  RDE  RDE			INTELS DECATETAL DESATE OF TOTAL DATE SURFACE STREET	RDEP 0653
### ##################################		E	MUDIC BEENTATAL OF	RDEP0054
57 DATA #1/3141592653589793238D 01/ 58 DATA MAME/ 6HYEAR72#6HYEAR73.6HYEAR74.6MYEAR75.6HYEAR76.6HYEAR77. RDE 59 1 6HYEAR78#6HYEAR79.6HYEAR80/.1LAST/0/.YRLAST/0/ RDE 60 C			AMMEN SECTOION NI	RDEP0055
DATA MAME/ GHYEAR72#GHYEAR73.6HYEAR74.6MYEAR75.6HYEAR76.6HYEAR77. RDE  60 C RDE			ALL MAN STRUCTURE AND TO THE PARTY OF THE PA	RDEP0056
59 1 6HYEAR7896HYEAR79, SHYEAR80/, TLAST/0/, YRLAST/0/ RDE		E	MATA BANE 4 43454000 4447432300 01/	RDEPOS57
60 C			MIN MARK ONTEANTZPONTEARTS, ONTEART4, ONTEART5, ONTEART7,	
			CHYEAR7896WYEAR79.5WYEAR80#0/.TLAST/0/,YRLAST/0/	RDEP0659
Ol YR S VEAR RAS				RDSP0860
				RDEPOS62

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63
                  C
                                                                                                                                                                        RDEPOSAS
                              1 = E7/24 i 0
  64
                                                                                                                                                                        RDEP0064
                               I s Day & T
  65
                                                                                                                                                                        RDEPOR65
  66
                                                                                                                                                                        RDEP0866
                              COMPUTE THE CODED VALUE OF &
 67
                                                                                                                                                                        RDEPARS7
  68
                                                                                                                                                                        RDEPOSES
  69
                               TIME a ANODIET#24.0)
                                                                                                                                                                        RDEPOS69
                          X = TimE/12.8D0 = 1.8D8
5 IF(1.6T,07.8ND,1.LT,866) GO TO ZO
  70
                                                                                                                                                                        RDEP0070
                                                                                                                                                                                               5
  71
                                                                                                                                                                        RDEP0871
  72
                  C
                                                                                                                                                                        RDEP0872
 73
                                 COMPUTE THE NUMBER OF DAYS IN THE GURRENT YEAR
                                                                                                                                                                        RDEPOST3
 74
                                                                                                                                                                        RDEP0074
 75
                               NUPYR & 365
                                                                                                                                                                        RDEPOS75
                              1F(MOD(YR,4);EQ,0) NDPYR4365
1F(1-NDPYR) 10+28+19
 76
                                                                                                                                                                        RDEP0876
                                                                                                                                                                                             10
  77
                                                                                                                                                                        RDEP0877
                                                                                                                                                                                             15
  78
                         18 YR B WR-1
                                                                                                                                                                                             14
                                                                                                                                                                        RDEF 0978
 79
                               1 8 16365
                                                                                                                                                                        RDEPOS79
  80
                                                                                                                                                                        RDEPOSSO
  81
                  C
                              IS THE NEW YEAR OF SPOCE A LEAP YEAR
                                                                                                                                                                        RDEPOSA1
  82
                  C
                                                                                                                                                                        RDEP0002
                               IF FHOD ( VH , # ) . EU , 0 ; $=1-2
  83
                                                                                                                                                                        RDEPOSES
                                                                                                                                                                                             16
                                                                                                                                                                                             19
  84
                               60 70 5
                                                                                                                                                                        RDEP0084
  85
                         15 YR a VR+1
                                                                                                                                                                        RD5P6885
                                                                                                                                                                                             20
  86
                               I a I-NDFYR
                                                                                                                                                                        RDEP0886
                                                                                                                                                                                             21
  87
                               GO TO 5
                                                                                                                                                                        RDEPOSS7
                                                                                                                                                                                             22
  88
                         20 IF (YR.LT:1972, OR: YR.GT. 4980) GO TO 200
                                                                                                                                                                        RDEPOSAS
  89
                                                                                                                                                                        RDEPOSSO
  90
                               HAS THE YEAR CHANGED SINCE THE LAST CALL
                                                                                                                                                                        RDEPOS90
  91
                                                                                                                                                                        RDEP0891
 92
                               IF ( VR. EQ; YRLAST) GO TO 25
                                                                                                                                                                        RDEP0892
                                                                                                                                                                                             26
  93
                                                                                                                                                                                             29
                               YRLAST # YR
                                                                                                                                                                        RDEP0893
  94
                                           EVR - 1971
                                                                                                                                                                        RDEP0894
                                                                                                                                                                                             30
 95
                              LRAME & NAME (IYR)
                                                                                                                                                                        RDEP0895
 96
                                                                                                                                                                        RDEP0896
                              LOAD THE LINK FOR THE CORRECT YEAR
  97
                                                                                                                                                                        RDEP0897
  98
                                                                                                                                                                        RDEP0998
  99
                               CALL LLINK ! LRAME ;
                                                                                                                                                                        RDEP0899
                                                                                                                                                                                             32
100
                         24 60 10 30
                                                                                                                                                                        RDEPO100
161
                                                                                                                                                                        RDEPO101
102
                               HAS THE DAY OF YEAR CHANGED SINCE THE LAST BRITRY
                                                                                                                                                                        RDEPoto2
163
                                                                                                                                                                        RDEP6103
104
                         25 IF(1,%0,1LXST) Go TO 75
                                                                                                                                                                        RDEPO104
                                                                                                                                                                                             34
185
                         30 ILASY . I
                                                                                                                                                                        RDEPOSO5
                   C
106
                                                                                                                                                                        RDEP0106
167
                  C
                               INTERPOLATE FOR ALL SIX TABLE ENTRIES
                                                                                                                                                                        RDEPOSO7
108
                               DO 50 Je1,24,4
                                                                                                                                                                                             38
                                                                                                                                                                        RDEPO108
                   C
109
                                         SUBROCTINE TABLE = CONTAINS THE SPREMENTS DATA
                                                                                                                                                                        RDEPSEOP
                                        PABLE
110
                                                                                                                                                                                             39
                                                                                                                                                                        RDEP0110
                   C MAKE SURE YIS FOR R.A. ARE NOT MOBILAR
111
                                                                                                                                                                        RDEPOS11
                         IF (J.EG.11 60 TO 36
IF (J.NE.13) GO TO 35
36 IF (DABS(Y(1)=Y(2)),GT.RI)
112
                                                                                                                                                                        RDEP0112
                                                                                                                                                                                             40
                                                                                                                                                                        RDEPO113
                                                                                                                                                                                             43
114
                                                                                       Y62) =Y$2)+3,D00P1
                                                                                                                                                                                             46
                                                                                                                                                                        RDEPOS14
                                     (DABS(V(2)-Y43))+81,P1)
115
                                                                                       462) sA£21+5' DO.661
                                                                                                                                                                        RDEP0115
                                                                                                                                                                                             49
                         1F (DABS(Y(37-Y(4)),GT,P1)
35 SUM(1) * Y(11+Y(4)
116
                                                                                                                                                                        RDEP6116
                                                                                        Y(4) #4#41.3.DOOP!
                                                                                                                                                                                             52
117
                                                                                                                                                                        RDEPO117
                                                                                                                                                                                             55
118
                               SUM(2) 9 Y(2)+Y(3)
                                                                                                                                                                        RDEP0118
                                                                                                                                                                                             59
                               D1F(2) 0 Y(4)-Y(1)
119
                                                                                                                                                                        RDEP0119
                                                                                                                                                                                             57
                               D1F(2) = Y(31-Y(2)
121
                                                                                                                                                                        RDFPASOD
                  C
                                                                                                                                                                        RDEP0121
122
                   C
                               COMPUTE THE SOEFFICIENTS FOR A THIRD DEGREE POLYNOMIAL
                                                                                                                                                                        RDEP0122
153
                                                                                                                                                                        RDEP0123
124
                               BBTA(d) = 27.045UM(R) = 3.0450M(R)
                                                                                                                                                                        RDEPO124
129
                               BETACHASS & 27.0.DIF(2) - DIF(1)
                                                                                                                                                                        RDEP0425
                                                                                                                                                                                             60
                               BETA(J.2) # 8.00(SUM(1)-SUM(2))
BETA(J.3) # BIF(1) - 3.00DIR(2)
126
                                                                                                                                                                                             61
                                                                                                                                                                        RDEP8126
127
                                                                                                                                                                        PDEPO$27
128
                         30 1 0 1 0 369
                                                                                                                                                                        RDEP0128
                                                                                                                                                                                             63
159
                                                                                                                                                                         BDED0128
                                                                                                                                                                        RDEP0130
130
                  C
                               COMPUTE THE RIGHT ASCENSION AND BECLINATION POR THE SUN AND MOON
131
                   C
                                                                                                                                                                         RDEP0131
132
                         75 J n 2
                                                                                                                                                                         RDEP0132
133
                               DQ 80 [81.7.6
                                                                                                                                                                        RDEP0133
                                                                                                                                                                                             66
134
                               M & L62
                                                                                                                                                                        RDEP0234
                                                                                                                                                                                             67
                               DC BS KSC. M
135
                                                                                                                                                                         RDEP0135
                                                                                                                                                                                             48
                               OCCONCECTACION TO CONTRACT OF THE CONTRACT OF 
136
                                                                                                                                                                        RDEP0136
```

```
137
                80 Jedes
                                                                                             RDEP0137
   138
             C
                                                                                             RDEP0138
             C
                                                                                             RDEP6339
   139
                   COMPUTE THE FITE GOORDINATES OF THE SUN AND MONN
             C
   140
                                                                                             RDEP0240
                                                                                             RDEP0141
   141
                   DO PO KO1.7.6
   142
                   RA . ANS(K)
                                                                                             RDEP0142
                                                                                                        74
                   DE . BUSTKSTA
                                                                                             RDEP0143
   143
                                                                                                        75
   144
                   R & ANS(KE2)
                                                                                             RDEP0144
                                                                                                        76
                                                                                                        77
   146
                   SINRA & SIN(RA)
                                                                                             RDEP0246
                                                                                                        78
                   RCOSDE: ReEOS(UC)
   167
                                                                                             RDEP0147
                                                                                                        79
   148
                   ANS(MES) & REDSDE & COSRA
                                                                                             RDEP0346
                                                                                                        80
                   ANS(M64) a REOSDE & SINRA
ANS(M65) & R & SIN(DE)
   149
                                                                                             RDEP8349
                                                                                                        81
   190
                                                                                             RDEP0150
                                                                                                        82
               Se conside
   151
                                                                                             RDEP0151
   152
               100 REVURN
                                                                                             RDEP0152
                                                                                                        85
   122
               580 MELLE 00'2001 IA AM
                                                                                             RDGP0153
                                                                                                        86
   194
                                                                                             RDEP0154
                                                                                                        89
   155
               355 FORMATION ABNORMAL TERMINATION . EMMEMBRIS DATA NOT AVAILABLE FORRDEPOSSS
                  1 THE $40 PH BAY OF $51
                                                                                                        90
   156
                                                                                             RDEPO$56
   157
                                                                                             RDEP0157
                                                                                                        90
      28981 MBROS OF MEMORY USED BY THIS COMPILATION
67906 01 09-25-72 31,810 SUBROUTINE REERH
  PREFASE
   PROGRAM BREAK
                      673
    COMMON LENGTH
     V CHUNT BITS
  PRIMERY SYNDER ENTRY
    RUBBH
SECONDARY SYNDEF ENTRY
      EPBSK
                   LENGTH
  I EMABLK
      SYMREP
  2 008
     SIN
      LLTHK
     TABLE
    。戸書刊V。
     FEXIT
    . FFSL.
 10
11 FRAD.

11 FRAD.

673 IS THE NEXT AVAILABLE LOCATION.

6HAP VERSON/ASSEMBLY DATES JMPA 056172/052521 JMR8 041

THERE WERE NO MARMING FLASS IN THE ABOVE ASSEMBLY.

7- 19499 WORDS OF HEMORY WERE USED BY GMAP FOR THES ASSEMBLY.
                                                            JMR8 096171/052571
                                                                                       JMPC 050171/038971
67906 01 09-25-72 11,816 TOTAL SNY BRIGHTRES MAIN SUBPROGRAM
                    MASSORAGIC NIME SESENTHORS AND JAPON
                                                                                             NLITESO1
                                                                                             NL1T0802
             Chononecations Hite Fale Actoreteres contact and contact accordances and Literature
                                                                                          NL 170804
             NL110806
NL110807
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CO-SO-SONABA WALLEPS VERSION OF \$2201870

	Coopened ANGUAGROFORTRAN IV	NLIT
	C	NLIT
-	CoodeeneMASHINEGE 625	NLIT
	C0000000 PURPOSE	NLII
		NLIT
	C TO DETERMINE FROM DAILY TIME PERSODS THAT PORTION OF THE STATES C PERSOD FOR WHICH THE TOTAL SEE RECKEROUND BRIGHTNESS OF THE	BNLI
	C PORIDO ROR HHICH THE TOTAL SKE BECKBOUND BRIGHTNESS OF THE COURSED BARIUM SCOUD AS SHEN BROM A GIVEN TRACKING STATEOR WILL	NLI
	C BE LOVER THAN THE STATED CONSTRAINT.	
	C BA Carry Line Line States CAustrasell	NLII
	СверфоновиЕФИОДо	NL 11
	C THIS SET OF SUBPROGRAMS DETERMINES THE TOTAL SKY BACKGROUND	MIST
	C BRIGHTNESS FOR DISCRETE ONLVERSAL TIMES OF THE CURRENT DAY.	NLI
	C CHECKS ARE MADE BASH TIME THE TOTAL SKY BECKGROUND DRIGHTNESS	NLI
	C IS CALCOUNTED TO DETERMINE IF THE GIVEN VALUE OF THIS	NI TI
	C COMSTRAINT HAS BEEN EXCEEDED BE NOT INTEGER VARIABLES NIMAL ARE	ENLIS
	USED TO RECORD THESE EVENTS, FER THE SVENT THAT THE CONSTRAINT	NLIT
	C 15 EXCERDEDATHE RROMER VARIABLE WING IS SIVEN A VALUE OF ONE.	NLI
	C AF THE CONSTRAINT IS NOT ENGERDED THEN THE PROPER INTEGER	NLIT
	C VARIABLE IS SET VO ZERO?	METI
	C COMPANY THE AND	NLIT
	C USING THE IN! AND AMA INTEGER VARIABLES, SUGGESSIVE POINTS ARE	MLIT
	C GASCULATED IN HASE MOUR TIME INCREMENTS UNTIL A CHANGE OF EVEN.	TALIT
	The state of the s	NLII
		NLII
	C EVENT OF THE CALEULATION PERFERMED AT A TIME BETWEEN THESE OF EVENTS YNA AND 18:2THE CALCULATION FOR THE 1L1 GVENT THEN	MEII
-	C REPLACES THOSE OF STYNER THE SNI OR IMP BYENT WHICHEVER IS THE	N. 17
	SAME AS THE IL   BUENT THE PRESENT IS REPEATED UNTIL THE	
	C ROUTINE CONVERGES TO THE TIME OF EVENT CHANGE WITH AN ACCORACY	NLIT
	C OF .008 HOURS:	NLII
	TO THE RESERVE OF THE PARTY OF	NL 11
	C PHESE TIMES FOUND ARE THEN THE STARTYSTOP RELEASE TIME	NLT
	C INVERVALS FOR SAVISFRING THE POTAL SKY BEIGHTNESS CONSTRAINT	NLIT
	C FOR A GIVEN STATEON ON A GIVER DAY.	NLI
	C	NL 11
	C IN ADDITIONAL THE EVENT MECHBED FOR A GIVEN UNIVERSAL TIME !	SNLIT
	C ZERO (A GUJU RELEASE TIME) THE SUBROUTINE TRACK! GHEGKS TO	NLI
	C MANE SURE THE CONSTRAINT IS NOT EXCEDDED DURING THE	NLIT
	C EXPERIMENTAL PERSOD, IF THE BETON THESS CONSTRAINT IS EXCEEDED	NL 1
	C BURING THE EXPERIMENTAL REGION THE UNIVERSAL TIME GEFORDE C IS CONSIDERED AS NOT FAVORABLE AND THE EXEMP HODE FOR THAT TIME	BALII
	C IS CONSIDERED AS NOT FAVORABLE AND THE EVENT BODE FOR THAT TIME	
	C 13 Chandeb 10 Out.	NL 1
	CBABBaaaBBaBBUTS	NL 11
	C	NLI
	C NS STATE NUMBER OF STATIONS USED IN THE PROGRAM	NL 11
	C .	NL 1
	C NOS(12) -AR ARRAY CONTACNING THE STATION NUMBERS USED	NLI
Ţ	C	NLIT
-	C R(S) - IRPUT VALUE FOR TOTAL SKY BACKGROUMB BRIGHTNESS	NLI
	- (RAYLEIGHE)	NL 11
	C	MLIT
	C RIFT -MINIMUM TRACKING MERIOD AFTER RELEASE (MOURS)	NLIT
	C	NL 11
	C BASIZITI MAIRGION BRIGHTNESS FROM A SIVEN STATION TO THE	NLI
	- SARIA . GOSI SAIS S. LW. OFOUR SUNTERSHIPS	NL I
	C C(22.7) GEOFFICIENT DESENDENT UPON THE RELATIVE POSITION	NLI
	C C(22,7) - COPFFICIENT DESENDENT UPON THE RELATIVE COSITION C COF THE TRACKING STATION TO THE CLOUB AND USED TO	NNL II
-	C -SOLVE FOR THE TOTAL SKY BARKGROUND BRIGHTNESS	MI T
-	C applies in the init sky paramanun aktamins22	NL IT
	C TO STODIASAL GIGHT BREGHTHESS OF A POINT IN THE SKY	NI T
	C etRAYLETEHE)	NLT
	C	NL T
	C ST UNRESCLVED STAR BRIGHTNESS OF A POINT IN THE SK	YNLT
	C -[RAYES!GHS]	NLI
		NET
•		NLI
	Casassa Ourpure	NLI
		NLT

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C = ST INDEX FOR STORING START/STOP TIMES:
C = SPSTS FOR START FIMES
C = 29476 FOR STOP TIMES
C = 29476 FOR STOP TIMES
C = STOTAL SRY WE CONSTRAINT
C = STOTAL SRY WECKGROUND WRIGHTNESS
C = SRD INDEX FOR THE STATION QUINGER
81
                                                                                                                                                                                              NLITOB81
32
                                                                                                                                                                                              NL1TOBA2
$3
                                                                                                                                                                                              NLITERS
NLITERS
 84
 85
                                                                                                                                                                                              NL118885
 86
                                                                         -SRD INDEX FOR THE STATION DUMBER
                                                                                                                                                                                               NL170986
  $7
                                                                                                                                                                                              NL 1 19887
                     Co-sessoperegratications Cossessoperegraph of the numberically greated than the accurate to obe Costations have be used to the are accurate to obe
  88
                                                                                                                                                                                              NL110888
 89
  90
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                                   HERNTE OF TIME
 91
                                                                                                                                                                                              NL 179891
NL 176892
                     Co-secesusprograms Required-
  93
                                                                                                                                                                                               NL 170993
                                  seaoi
  94
                                                                                                                                                                                              NLITEB94
 93
                                                                                                                                                                                              NLITO895
  96
                                                                                                                                                                                              NL 1 TO 896
                                   STRLIF
97
                                                                                                                                                                                               NLITOR97
  98
                                                                                                                                                                                               NL 110098
  99
                                                                                                                                                                                              NL 11899
100
                                       ONLY BUBYEN TRASHING STATIONS GAM BE USED AS INPUT IF ONE OF THESE STATIONS IS AN AIRBRAFT.
                                                                                                                                                                                               NLITEROD
102
                     CBeBeseseRaMARKe
                                                                                                                                                                                              NL 178201
103
                                                                                                                                                                                               NL ITOSO3
104
                    NI 170104
105
106
                                                                                                                                                                                              NL TTOEGG
                                 SABEGRALINE WILLE
107
                                                                                                                                                                                              NLITOSO7
108
                                                                                                                                                                                              NL 170108
                                  COMMON/BLKD JNS, MOS(12)
COMMON/BLKS/ WINDOW(675,12)
COMMON/BLKS/ WINDOW(675,12)
COMMON/BLKS/ JWX(12) WY(12) WZ(22) P BAS12,7), C(12,7), JEGD
189
                                                                                                                                                                                              NLITO109
110
                                                                                                                                                                                              NL 170110
NL 170111
111
112
                                                                                                                                                                                              NLIT0112
113
                                                                                                                                                                                              NLITO$13
                    C BEGIN CALGULATION OF TOTAL BRIGHTNESS FOR EACH STATION
114
                                                                                                                                                                                              NLITO114
                                  DO 100 IT 1.NS
115
                                                                                                                                                                                              NLIT8115
                     I ENDS!!!)
C SET FIRST STORAGE TIME TO ZERO FOR STATION $!;
116
                                                                                                                                                                                              NLIT0116
117
                                                                                                                                                                                              NLITO117
                     WINDON(115, 140.0
C SET STORAGE FOR TIMES TO 24.0 FOR STATION(1)
118
                                                                                                                                                                                              NL 170218
NL 170119
119
120
                         588 MINBUKK12-(12-54-0
DO 599 K65-9
                                                                                                                                                                                              NLITO120
121
                                                                                                                                                                                              NLIT0121
122
                                   Kei
                                                                                                                                                                                              NLITP122
                                   TEVARESO
123
                    TETRITION APSTART

C FIED THERTIAL COMPONENTS OF VECTOR W

CALL SCYCI (TIPI)

C FIND THE BRIGHTNESS DUE TO IODIACEL ETSHT AND STERLIOHT AT TIME V1
                                                                                                                                                                                              NLIT0123
                                                                                                                                                                                                                        8
124
                                                                                                                                                                                              NL110924
125
                                                                                                                                                                                               NLITO125
126
                                                                                                                                                                                              NL 170126
NL 170127
                                                                                                                                                                                                                      10
127
                    CALL 20DLIT (T1)

CALL STRICT
C FIED YOYAL BRIGHTNESS AT TIME T2

BY CBA(T,1) + (ZD-ST) + E(1,1)
128
                                                                                                                                                                                               NL I TO128
                                                                                                                                                                                                                      11
129
                                                                                                                                                                                               NLITO129
                                                                                                                                                                                                                      12
130
                                                                                                                                                                                               NLITOE30
231
                    C 18 97 LESS YHAN RESTR
IF (87 -8(5)) 24.25-23
                                                                                                                                                                                               NLITOS31
125
                                                                                                                                                                                              NL 1 TO 832
133
                                                                                                                                                                                                                     14
                                                                                                                                                                                              NL 110133
134
                     C NO . THEN SET ELAG.
                                                                                                                                                                                              NLITO454
NLITO455
                   C NO THER SET ELAGRA

83 N 9 1

GQ 70 11

C YES - THEM SET PLAGRO AND CHECK PER BRIGHTHESS DURING THE TRACKING
                                                                                                                                                                                                                     15
134
                                                                                                                                                                                              NLITO536
                                                                                                                                                                                                                      16
137
         24 N

IF (JEND:GY:1) CALL TRACK (110N:3)

C CHECK POINT HALF HOUR SATER AND OSE SARE LEGIC

SI THE REPORT (1291)

GALL REPORT

OF ARA(1:4) + (20:57) + E(1:1)

IF (BY =8(3)) 26,29e29

27 H

11 CALL REPORT

12 CALL REPORT

13 CALL REPORT

14 CALL REPORT

15 CALL REPORT

16 CALL REPORT

17 CALL REPORT

18 CALL REPORT

1
                                                                                                                                                                                              NL I TO 537
                     C MENIOD,
138
                                                                                                                                                                                              N. ITO338
139
                                                                                                                                                                                               NL ITOES9
                                                                                                                                                                                                                      17
140
                                                                                                                                                                                              NL 110640
NL 110642
NL 110842
                                                                                                                                                                                                                      18
191
                                                                                                                                                                                                                      21
143
                                                                                                                                                                                              NL I TOS 43
                                                                                                                                                                                                                     55
144
                                                                                                                                                                                               NL ITER46
                                                                                                                                                                                                                      23
145
                                                                                                                                                                                              NL ITOS45
                                                                                                                                                                                                                      24
1.46
                                                                                                                                                                                              NLITOS46
                                                                                                                                                                                                                      25
140
                                                                                                                                                                                              NL 1 TO 47
                                                                                                                                                                                                                     27
                                                                                                                                                                                               NL ITO 148
                                   60 70 27
149
                                                                                                                                                                                              ML ITULAR
                                                                                                                                                                                                                     28
                                  H (JHND; GT; 1) GALL TRACK (120HyS)
150
                                                                                                                                                                                              NL ITOESO
                                                                                                                                                                                                                     29
191
                                                                                                                                                                                              NL I To251
                                                                                                                                                                                                                     30
192
                     C IN MAN
                                                                                                                                                                                              NL 1 TO 192
                            31 11 (H-H) 34 - 39 1 3A
                                                                                                                                                                                                                     33
                     C YES . THEN NO CHANGE IN EVENT DURING PRINCHESS NEXT TIME INGREMENT NLITO254
```

```
155
              20 71
                               e 72
                                                                                                   NL 1 TO 255
                                                                                                               34
                  IF (72.67.24.0) 00 90 14
156
                                                                                                   NL 1 TO 256
                                                                                                               35
197
                  TE
                               € 20.0
                                                                                                   NL ITO257
158
                  60 98 38
                                                                                                   NLITO158
                                                                                                               39
          C NO - THE BURNES OF EVENY OSSURRED-MUST NOW KIND TIME OF CHANGE BY IFICYZ-YEJ LY, DOS) GO TO 35
                                                                                                   NL ITOSSP
199
                                                                                                   NLITO160
NLITO161
160
                                                                                                               40
                                                                                                               43
161
                                                                                                               44
162
              $2 CALL SETTI (73.1)
                                                                                                   NL 170162
                  EACH ZODLIY (73)
                                                                                                   NLTTOR63
                                                                                                               45
163
106
                                                                                                   NL TTOESS
                                                                                                               46
                  CALL BYREIT
163
                                                                                                   NL 170465
                         $BA(1,1) . (ZB+ST) . E(1,1)
                                                                                                               47
                                                                                                   N. 178166
N. 178867
166
                  IF (BY WRYS)) 32,31+31
                                                                                                               45
                                                                                                               49
187
              92 [
168
                                                                                                   NL 1 TOSAS
                                                                                                               90
              TF (JEND: GT, 1) CALL TRACK (T3.Let)
33 [File] 39:34335
                                                                                                   NL ITOSSP
169
                                                                                                               51
                                                                                                   NL I TO $70
170
                                                                                                               52
171
                                                                                                   NL 1 TO 471
          C IP YES THEN TIME OF CHANGE IS BETWEEN TO AND YS
                                                                                                   NL 110173
173
                               9 73
174
              34 45
                                                                                                   NL 110174
                                                                                                               56
175
                  80 AQ 58
                                                                                                   NL 176175
                                                                                                               57
                               # P3
              25 75
176
                                                                                                   NLITOR76
                                                                                                               58
                 60 YO 29
                                                                                                   NL TOE 77
                                                                                                               59
177
          C 18 TO LESS THAN TSTOP-IP NOT THEN ENTIRE INTERVAL HAS BEEN CHEEKED
178
                                                                                                   NL ITOSTE
              34 IF 173, [7:24:0) 60 YO 38
                                                                                                               50
179
                                                                                                   NL ITOSTP
                  43
                               # 24.0
                                                                                                   NL 1TOSSO
                                                                                                               63
188
              38 1FEN) 45742,41
91 YSTARYETS
                                                                                                   NLITO181
181
185
                                                                                                   NLITOSAZ
                                                                                                               65
183
                                                                                                   NL110283
                                                                                                               66
184
                  GO YG 43
                                                                                                   NL 1TO184
                                                                                                               67
          C STORE TIME INTERVAL FOR SKY BRIGHTNESS GONSTRAINT
185
                                                                                                   NL I Teas5
186
                                                                                                   NL170186
187
                  HINDOMAKATOS! 19843
                                                                                                   NLITO187
188
                  KaNaZ
                                                                                                   NL 1 TO 588
                                                                                                               70
                  TSTARFETS
                                                                                                   NL 1TORES
189
                                                                                                               71
190
                                                                                                   NLITOR90
             N 3 1 (73.67.24.0) GO TO 16
                                                                                                               72
191
                                                                                                   NLIT0191
                                                                                                               73
             188 CONTINUE
                                                                                                   NL110192
NL110193
192
                                                                                                               76
303
                  RETURB
                                                                                                               78
194
                  END
                                                                                                   NL 1 T0194
                                                                                                               79
```

## 28884 WERDS OF MEMORY OSED BY THIS COMPTLATION

7906 09	09-25-7	2 11,822	TOTAL	SK¥	BRIGHTNES	S HATN	SUMPROGRAM
	PREFACE						
PRO	SEAN BREAK	K 459					
A C	ERON LONGT	H B					
PRIME	THA SAMDRE	ENTRU		-			
NL	. TAE						
	IRA ZAMDEŁ	ENTRY					
SECONDA		ENAMA ENAMA				(Ma) A-10-	
ECONDA BL	ery synder	CENGAR					
BECONDA BL 1 BL	. Bak Bak Bak Bak Bak	CENGAN.					
SECONDS BL 1 BL	ry syndef .98k .M81 .N81	TENGAR					
1 BL 2 BL 3 BL	. Bak Bak Bak Bak Bak	CENGAN.			*		
SECONDA BL 1 BL 2 BL 3 BL 4 BL	ABU SYNDEF Bek Met Met	78 18 28 18					
SECONDA 1 BL 2 BL 3 BL 4 BL 5 BL	AND SYNDEF BOX NEL NO NO NO NO NO NO NO NO NO NO	78 18 28 18					
8ECONDA 1 BL 2 BL 3 BL 5 BL	A SYNDEF . B SK . K S . K S	78 18 28 18					

10 STRUIT
11 ZODDIT
404 IN THE NEXT AVAILABLE LUCATION;
6HAP VERSION/ASSEMBLY DATES JMPA 650174/053921 JMRB 046
THERE WERE GO MARNING FLAGS IN THE ABOVE ASSEMBLY
60 19429 WORDS OF MEMORY WERE USED BY GMAP FOR THIS \$33EMBLY; JMRB 0\$6171/052521 JMPC 050171/052571

## 67906 01 09-25-72 11:842

1	CHCVI	GCTIOS
2	C	301100
3	Conservations and Constitution of the Conservation of the Conserva	0007109
4	C C C C C C C C C C C C C C C C C C C	GCTIOS
- 6	C C C C C C C C C C C C C C C C C C C	GCT108
7	COORDONASA MACLEPS VERSION OF \$2/01/70	GCTIOS
8	C	007108
9	Chasesas LAGGUAGE ONTRAN IV	061108
10	T	GCTIOS
11	CB+BB+BBHINE-GE 625	901100
12	· ·	GCTIOE
13	Cossess Puggges	Gefiee
14	C TO CONVERT GEOCENTRIC GOURDINATES TO INERTIAL COORSINATES?	GCTION
15		GCTION
16	Consessed METHODO	607108
17	C FIRST THE SIN AND GOS OF THE GREENWISH MUCH SIDERIAL MODE ANGLE C IS CALCULATED FOR THE SPECIFIC TIME IN QUESTION. THESE VALUES	
19	C IS CALCULATED FOR THE SPECIFIC TIME IN QUESTION, THESE VALUES ARE THEN USED TO CONVERT THE GEOGENTSIC COORDINATES TO ENERGIA	GCTIOS LGCTIOS
20	C grant to constant the agogetical grant to district	967100
21	Caeseesinnuy	GCTIOS
22	C	GCTIO
23	GHA -GREENWICH MEAN SIDEREAL HOUR ANGLE AT ZERO HOUR	
24	C -UNIVERSAL TIME (HRS)	GCTIOS
25	C	661198
26	C WX -GROCENYRIE & COMPONENT OF INPUT VEGTOR	GCTIOS
27	C	007106
28	GEOGENTRIS & COMPONENT OF INPUT VECTOR	GCTIOS
29		GCTIOS
30	GROCENTRIS Z SOMPONENT OF INPUT VEGTOR	GCTIOS
31		GCTIOS
32	C T -CHRRENT UNIVERMAL TIME (MOURS)	GCTION
34	C I -TRACKING STATION GUNDER	GCTIOS
35	C C C C C C C C C C C C C C C C C C C	GCTIOS
36	C HTR -BONYERSION ERON HOURS TO BADIANS	GC7106
37		GCTIOS
38	C DOWA -HOURLY CHANGE FOR SIDERIAL TIME	GCTIOS
39	C	GCTIOS
40		GCTIOS
41	Casasse Outputs	GCTIO
42	C C C C C C C C C C C C C C C C C C C	GC7106
83	C WE STREETIAL & COMPONENT OF OUTPUT VECTOR	367106
45	C WZ -IHERTIAL 2 COMPONENT OF OUTPUT VECTOR	GC7106
86	C at attackilar & RonuBustul & ontwol Asc. Bu	GC7106
47	C WS STREETIAL Z COMPONENT OF COTFUT VECTOR	GCTIO
48	C	GCTIO
49	CBessessRESTRICTIONS	GCTIO
90	C HONE HNOWN	961106
51	C	607100
52	CB+G+++6SUBPROGRAMS REQUIRED-	GCTIO
53	C NOME	GCYIO
54	C	061100
53	Casessone DF BOSUMENTATION CARBS Good on a second concession of the cases of the case	-0C7100
36	C AMBRAGARY ASSESSMENT	GCTIO
97	SUBROUTINE GETOI(T,1)	667186
38	COMMON/SUKE JOTE, RYDY MTR. HALFEY, RYH. AU. DELTA(4) ERMA DGHA	001750
60	COMMONIAL AND ANA COMMONIAL AND ANALYSIS AND COMMONIAL AND COM	GC7106
	COMMOGNETHINAS MS MS	60710

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67996 01 09-85-72 11,845
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    72 IS THE NEXT AVAILABLE LOCATION .
THAP VERBION/ASSEMBLY DATES
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THERE WERE NO WARMING FLASS IN THE ABOVE ASSEMBLY 60 19235 WORDS OF HEMORY WERE USED BY GHAP FOR THEY ASSEMBLY
67995 01 69-25-72 11,848 ZODIACAL LIGHT
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    11
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                        TO CALCULATE THE ZODIACAL LIGHT FOR & GIVEN SET OF LOOK
    13
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    15
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    16
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    53
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                         ANTRE IN MAACETONS
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ZODL 0823

200L0824

25		20010652	
86	C HE STREETSAL E COMMONERY OF VESTOR FROM STATEOR(!)	20010856	
27	c -YO ELOUD	ZODL0827	
50		Z0010858	
5.0	C WZ - SMERTSAL S GOMBONENT OF VERTOR PROM STATEOG(1)	Z00L0829	
20	-to sloud	ZODL 0030	
21		20010831	
35	C WE SIMERTIAL 2 GOMMONENT OF VECTOR FROM SILTEON(I)	Z0010032	
93	C -70 8LOUD	ZODL8833	
84		20019824	
89	C ALLERON	ZODLOG35	
36	Co-co-o-d DUTACT-	ZODL0836	
38		20016837	
39		Z00L8838	
90	C -{MVAFES@MES	ZODL0839	
- 61	CB-B-B-B-B-B-R-1CTIBNS-	ZODL 0840 ZODL 0841	
45	C NOME	ZODL0842	
43	C NOGE	Z00L0843	
- 55	CHARAGE SUBPREGRAMS REQUIRED.	ZODL 0844	
45	C IVE	20010845	
86	C 27ABLU	20010845	
67	C	ZODL0847	
48	COORDERED OF BOSUMENTATION CARBSGOOGGOOGGOOGGOOGGOOGGOOGGOOGGOOGGOOGGO	Z00L0848	
89	C	200L0849	
90	SURECHTIRE SEDLIT IV;	200L0850	
91	COMMONTALKWZ/PHIE. OMEGAE	20010851	
25	C TRANSFORM INTRITAL RECTANSULAR COMPONENTS OF INPUT VECTOR TO ESLIPTIC	ZODL0852	
93	C GOORDINAVES	ZODLO053	
54	GALL 178	200L0854	
99	PUTE GAUSEPRIE)	ZODL0855	
95	C PERFORM YABLE LOSKUP FOR VALUE OF ZORTABAL LIGHT.	Z00L0636	
57	CALL ZTABLE (T)	Z0DL0897	,
58	<b>康</b> € ♥ 以発音	ZODLOSS	
59	END	20010859	

SAASS MANAS ON MEMONA ORED BA ARIS SOUNTITALISM

67906 01 09-85-72	22,872	ZODIACAL LIGHT			
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2 ! Y W					
3 YABBLE 26 % THE NEXT GHAP YERSON/ASSMI	AANIDABCE E	CATION, JMPA 050174/058971	8 <b>9</b> ML	096171/092571	J4PC 050171/0525
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2 8LKH2 &  SWREF  3 AYBR 4 SQRY 5 AYBR 139 18 THE NEXT AVAILABLE LOCATION ( 6 STAP VERWSUN/ASSEHBLY DATES JMPA 696178/052921 JMR8 096271/692921 JMR	PC 050171/0589/1
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2 BLKN2 8  SYMREF  3 AYEM 4 SRRY 5 AYEM2 135 18 THE NEXT AVAILABLE LOCATION. 6HAF VERSION/ASSEMBLY DATES JMFA 050172/052921 JMFB 050271/092971 JMF THERE WERE 100 WARMING FLASS IN TWE ABOVE ASSEMBLY 6- 19219 WORDS OF DEMORY WESE USED BY 6HAP FOR TWXE ASSEMBLY 6-7006 01 09-25-72 11,935 TABLE OF ZODIACAL LIGHT 2 CESSESSESSESSESSESSESSESSESSESSESSESSESS	ZTABORO1 ==ZTABORO2 ZTABORO3 ==ZTABORO4 ZTABORO5 ZTABORO5 ZTABORO5 ZTABORO5
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2 BLKM2 &  SYMREF  3 AYEM 4 SQRY 5 AYEM2 135 IS THE NEXT AVAILABLE LOCATION. GHAP VERSION/ASSEMBLY DATES JMPA 050172/052521 JMRB 050271/052571 JMR THERE WERE NO MARNARO FLAGS IN THE ABOVE ASSEMBLY 67906 01 09-25-72 11,935 TABLE OF ZODIACEL LIGHT  CZTEB YABLE OF ZODIACEL LIGHT 2 CDSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	ZTABORO1 ==ZTABORO2 ZTABORO3 ==ZTABORO4 ZTABORO5 ZTABORO5 ZTABORO7 ZTABORO9 ZTABORO9 ZTABORO9 ZTABORO9
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101 102 103 104	C INTERPOLATE TO FIND BRIGHTHESS AT POINT (PHIE, QA)  ZD = ZD2-ZD2-ZD1)#(P2-PHIE)2(R8-P2) C Calculate Brighthess for wavelength=Rave	ZTAB0102 ZTAB0103 ZTAB0104	19
105	ZD = ZD=0;0839	ZTAB0105 ZTAB0106	20
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SHAP VERSION/ASEMBLY DATES JMPA OB0171/052571 JMPC 050171/052571 
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                                          TO CAECOLATE THE STAR LIGHT BRIGHTNESS AT A GIVEN SET OF LOOK
       12
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                                          COURDINATES.
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                                          A VANCE LOOKUP PROCESS WITH LINEAR INTERPOLATION IS USED TO STRL0817 DETERMINE THE VALUE OF THE STIR BRIGHTNESS OF THE SKY STRL0818 BREKGROONS OF THE ELOUD IS SEEN FROM A GIVEN TRACKING STATION, STRL0819
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                                           INSREMENTS OF LAWITUDE FROM -10 DEG. TO +96 DEG. AND IN 20 DEG. STRL0025
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                                          LOWE ENGLES ARE FOUND FREM THE IMPATTAL BESTANGULAS COMPONENTS STRLO825
       26
                                           THEN TABLE LINEAR INTERPOLATION DETERMINES THE STAR GRIGHTNESS STRLORZE
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       29
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                                                                         - INERTIAL & COMBONENT OF VERTOR PROM STATION( )
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       36
                                                                        - INERTIAL 2 SOMPONENT OF VECTOR FROM STATZON(1)
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                       C
                                                                        -UNRESOLVED STARLIGHT BRIGHTHESS OF A POINT IN
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       54
                                     SUBROUTINE STRLIT
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                                    COMMON PACKE POTE, MYDY MYR. MALPRY, ATHO AU. DELTA(4) & ERMA DGHA
       33
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       56
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DOUGLE PRECISION DYR, RYD. MYR. WALPPI
DIMERSION STAR(73,33)
       57
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                       C DEFINE TABLE OF STAR BRIGHTNESS IN INSETTAL COORDINATE SYSTEM IN TENTHSTRUGGO
C VISUAL SYAR MEGSITUDES PER SQUARE DEGREE, EACH DATA STATEMENT DEFINES STRUGGOS
C VER TABLE IN CONGITUDE INCREMENTS FER BACH LATITUDE
       60
       62
                                    DATA $57ER [M.1] . HR6.73) / 2346618/
       63
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       64
                                     DATE $576R(K12) | M#4.73) / STRLEG64
       69
                                                   61: 0 01: 0 62? 9 62? 0 62? 0 68? 9 63? 0 68? 0 64. 0 64. 0 65. VSTRL0866
60: 0 50: 0 66? 9 67? 0 60? 9 59? V 76? 0 70. V 71. 72. FSTRL0868
73: 74: 9 85? 9 75? 0 78? 9 77? 9 77; 0 77; 0 77, 0 77, 1 77; VSTRL0868
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72	8	61;	, 60,	. 607	1				- 1			STRL0872
73 74	DATA	SYAK	CK131	. Kd8 . 7	3) /	. 547	y 547	. 54.	, 54,	. 84	. 88	STRL0073
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76	3	69,	, 67,	0 687	9 707	. 791	9 757	9 787	. 81,	, 84,	2 88	#STRL0076
77 78	4	44.	, 95,	. 987	P1017	.1097	91067	v108}	, 510,	ø110,	.110,	PSTRL0877
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80	7	697	. 64.	. 622	e 61?	687	9 607	. 597	, 59,	58.	57.	*STRL0880
91	8		7 500	0 957	7							STRL0881
82	DAYA	USVER	\$K341	. Keg. 2	3) /	wan		- arm	- 0		24.4	STRL0882
84	5	51	, 51,	· 917	7 507	. 597	9 907	1 497				95TRL0883
85	3	66,	7 69	a \$27	p 76?	. 887			1103,			STRL0885
56	4	1277	1135,	P2407	91447	.148?	91927	11907	1256,	4150,	1158,	PSTRLOGSÓ
87	5	190,	1157	01997	91927	-14¥?	P1487		12321	8123,	1214,	#STRL 8887
89	7	102	1 641	0 597	0 617	507	9 737	· 991	1 69	57	961	VSTRL 0088
90	8	99;	7 54,	e 937	0	• •••						STREOSO
91	DAVA	45VAR	5K25)	.KBE.7	3) /							STR_0891
92	2	49.	7 48	9 487 9 497	9 477 B 547	. 48? . 58?	7 467					#STRL0892
	3	67.		. 997		. 987	71127					#STRL0694
95	4		,188,	*250?	4504.	.2477	72267	12881	1240.	v243,	1244.	PSTRL0895
96	5			-2317		.2487	72077		1185,	:173,	12611	FSTRL8896
78	7	1791	11271	P1257	9 997	0 047	7 607	1 482				PSTRLOS97
99	8	507	51	. 507	1 021		A -0.	1 9w1	1 3,1	6 221	1 241	STRL0899
100	DAVA	ISTAR	(K; 6)	.Kes. 7	3) /					12.2		STRLOSOO
101	1 2	47	40,	9 657	9 497	. 447			1 42,	+ 42	43,	#\$T#L0101
103	3			9 917		-1277	P1917		. 483.	.247.	.989.	957%L0802
104	4	2017	,292,	v\$827	9377	.449?	94927	,5227	,936,	e537,	,529.	PSTRLOGO4
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108	g	507	, 48,	v 472	1	9 491	7 2-1		1 221	4 241	. 211	STRLOSOS
109	DATA	ISTAR	ck;71	.Kes.7	3) /							STRL0109
110	1 7	44,	1 48	9 427	9 417	· 48:	P 407	1 461	, 39,	. 40,	. 41.	PSTRL0210
113	3	787	91.	r 4 6 4 2	9 487	4707	y 557	4 244	. 276.	. 3 . 5	1886.	PSTRL0111 PSTRL0112
113	4	514.	1630,	86843	77037	* 4 6 6 C.	76487	96684	, 575 .	.557.	.547.	PSTRLBS45
	5	547,	, 555,	9988?	75867	.9897	75637	.52£7	,430.	»366,	. 323 .	PSTRL0114
115	9	741	1250	92647	91777	01197	71127	. 987	. 83,	0 78,	76,	9878L8615
117	é	49	45	9 447	1 42.	o a	A 30 t	A 334	1 221	1 221	. 44	STRL0117
118	DAYA	SSYAR	EKT89	. Kma. 7	30 /				100			8791 BA48
119	2	440	. 40.	9 397	9 387	9 357	7 367	. 66.	. 35	z 38,	. 39.	PSTALDEAP
121	<del>-</del>	887	9808A	01637	71867	*5384	72817	93027	.613.	¥999,	. 739.	STRL0120 STRL0221
155	4	762	. 573,	99947	94737	·3987	93547	13617	,328,	×324.	. 820 .	PSTRL0422
152	5	328	+854	.8407	73517	04157	74817	15457	,980,	×361,	, 468,	937AL0623
129	7	74.	. 69.	9 840	9 490	0 577	9 647	1 5297	. 24	. 45	. 44	+878L0824
126	8	43,	, 421	7 617		0 04.	, ,,,		0 211		. 401	STALORES
127	DAYA	ISVAR	SKAPI	Kal. 7	3) /	w 10 a		-	_			STRL 0127
128	<u> </u>	30,	6 37,	9 37?	9 377	. 3F.	9 877	9 411	. 37,	v 37,	, 38	78TRL0428
130	3	203.	1137	p1067	92467	3337	73687	489	749	.742	,634.	95TRL0529
131	4	484,	.370,	93827	92717	.248?	92247	92847	.210.	w218.	. 221.	#878L0131
132	5	938.	. 244.	9256º	92687	-9620	99997	.3397	.426,	p529.	.585,	9579L0132
134	7	78	71	P 550?	7304,	0263	71907	1190	: hill ;	o 94,	# 56;	PSTRL0133
135	6	95.	4 370	9 589	4	4 321	7 341	. 401	1 4/1	8 43,	. 451	STRL0235
136	DATA	ISTAN	ex:101	. Kes. 7	3) .	_	197, 21 gm			12		378L0936
137	1	39:	35	, 257	9 30?	. 567	7 367		1 36,	. 37,	. 38,	STALO137
139	3		175	. 2537	52904	3797	9 607	7287	4657	8 95,	240	9578L0238
140	4	247	1217:	01979	99497	.138?	91277	#128 ·	1935.	*144.	1255.	#ST#L8240
141	5	,962	\$184,	+280°	92147	*5504	92387	\$ 2929	. 274.	>320,	.646.	987FL 0141

142	6	3787	\$555,	·4297	9357?	.2987	92377	v179;	433	4108	, 93,	STRL0142
4 . 4	7	88,	, 73,	. 67:	9 617	. 697	p 517	, 48;	, 44,	# 42,	. 40.	FSTRL0143
144	8	38,	, 36,	4 887	V				W	-		STRL024
145	DATA (	SYARC	K;11)	KHS. 73	5) /	750		. 944	-4			STRLOS
167	2			· 84?		· 597	7 857	9 447	1 301	0 92	1 301	VSTRL0146 VSTRL0147
	3		, 213,			450	76487	1572	387	269	207	93TRL8145
169	4	156;	.121.	P1817	# 95?	. 96?	7 987	11020				FSTRL0149
150 151	5	1861	1435,	01467	P1607	.1787	71907	12024	1219,	¥236,	12731	PSTRLOSSO
191	6	295	. 305	e9817	P3987	*295.	72757	·5881	1368	v129,	1203;	FSTRL0191
152 153	A	16:	, 76,	9 577 9 537	9 607	. 34.	7 497	1 421	1 411	8 24	1 37	STRL0152 STRL0153
194	DAYA (	STAPE	K7121	Kaling	35 /							STRL0154
195	1	23.	, 34,	. 347	9 557	. 567	7 33?	s 687	, 33,	u 34,	, 35,	VSTRL0155
196	2	34.	, 41.	0 457	7 50?	· By:	P 647	v 78	1 87	w104,	11321	PSTRL0256
157 158	3	1001		43847 9 847		. 817	9 5087 9 527	13007	230,	1120,	1129	
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160	6	244.	. 343.	.4917	0470?	.3487	92947	1248	, 293,	#145.	. 115.	STRI 0960
191	7					· BE.	9 497	1 681	1 41 1	u 37,	, 35,	9STRL0161
9 - 9	8			. 387					Deline Color			STRL0162
163	DAYA (	SYAR C	333	Kp能 75	3 367	. 38:	y 827	. 39,	. 19.	. 33	. 25	STRL0263 PSTRL0264
165	2			9 497		. 587	9 067	7 78	. 94.	=417.	1952	VSTRL0165
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167	4	85,	77	0 987		. 997	9 737	. 781	. 74.	v 79,	1 76.	PSTRL 0567
168	5	78	, 80,	* 637	9 877	987	91007	1198	11191	#138,	12501	PSTRL0268 PSTRL0269
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171	8			. 842					. 407		. 001	STRL0171
172	DATA			Ken. 73								STRL0172
173	1			» 29?		+ 387	9 327					VSTRL8473
174	2	39,	, 4U,	9 657 •3657	9 517	· 2084	9 2007	1 921	13021	1127	1265	#STRL 0174
176	ě.			9 567		2087	7 637	. 65	. 63.	68	. 64	-STR_0276
177	5	64,	. 65,	. 677	¥ 70?	. 78;	9 777	0 661	, 90,	, 98,	1209.	wSTRI 0877
178	6			v198.		*368.	92927	1249	, 223,	a 183,	12421	+STRL0178
179	9	178	75	. 737 . 557	A 951	* 2m.	9 467	2 461	# 41+	: 30,	1 371	#STRL0479
181	DAYA	STARE	K115)	Kag . 75	55 /							STRL0680 STRL0181
182	1	35,	, 34,	v 327	y 83?	. 327	9 327	. 82.	, 32,	s 33,	. 34.	#STRL0182
103	2	36,		# 457		. 377	9 707	. 87,	: \$15:	×137,	+2741	#37RL0183
184	3		2591	+368? + 58?	93157	+2037	91637 9 547	,169;	1215,	8 96,	, 78,	#STRL 0284
186	5	55	57	a 507	9 607	484	9 647	. 94	73.	79.	2 86.	STRLOAS5
187	6		0117.	01457	91937	.297	93107	, 248;	:215,	191	1152	.STR_0187
163	7		, 93,	. \$57	9 63?	. 55?	9 497	. 451	. 42,	# 39,	· 37:	PSTRLOESS
189	DATA :	377	37	6 567								STRLOSSP
	1	34	34	中 移動する	9 527	. 38?	9 327	, 42,	. 33.	. 33.	. 34.	STR_6290 PSTRL6191
165	2	357	. 40,	7 497	7 527	. 697	9 727	. 94.	1214,	0139.	12611	#STRL0192
193	3		. 283.	~326?	12207		71487	1129	1103,	s 83,	1 69	PSTRL0193
195	5	497	550	· 527	9 907	. 407	7 487	9 487				#STRL 8394
196	6	# 3 ·	901	F1447	#4387	-2n3:			203.	1488.	1 958.	FSTRL0195 FSTRL0196
197	7	125;	, 98,	9 987	9 657	. 577	9 91?					PSTRL0697
	8	26	. 37	# 367	1							STRLORES
199	DATA (	STAR	K. 171	Kag. 73		. 387	9 327	, 33,	7.4	7.4	7.4	STRL0199
201	<del>2</del>	36;	. 46,	0 697		687	9 767	1 69	443.	4133.	. 248.	PSTRLORGO PSTRLORGI
202	3	1977	. 224 .	PE837	9978?	·159?	91427	11809	, 90,	8 710	, 59,	PSTRLOROZ
203	4		, 49,		9 447	0 657	9 437	1 487	, 43,	, 43,	, 441	751RL0203
203	2	767	, 46,	9 677	9 487	0 477	92167	1 967		s 65,		#STRLO204
200	7		102.				8 407	, 2547	1 44	£ 177,	1 40	#3TRL 0205
207	8	28.	1 37	v 854	1			1 441		11	. 0-1	STRL9207
209	DAYA	STARE	K1181	Kes. 73	3) /							STALBEOS
510 304	1		0 335			0 007						637910209
711	3		7 40,	0 497 02887	9 517	. 4477	* 747	129 0	98.	a 120,		eSTRL 6210
575	4	47	7 44	0 64?	e 417	. 384	A 201	197	39			#5TRL0212
213	5	40.	0 421	. 637	P 447	. 497	9 477	. 987	, 55,	w 61,	0 67	937RL 0213
514	6	79.		9 867								#5TRL 0214
572	,	104:	1000	. 824	A 99.	· BAL	9 937	2 485	1 451	a 45'	1 391	937NL 0213

216	8 37, 36, 897	STRL8816
217	DAYA (SYRREK;19).K.E.T3) /	STRL0217
218	1 347 , 335 , 827 9 317 , 887 9 347 7 857 , 36, 5 37, 1 37, 1 2 397 , 42, 6 457 9 507 , 687 9 727 9 877 , 102, 1112, 1299,	STRL0818
	2 39; 42; 639; 9 507; 667; 9 727; 467; 1602; 1112; 1259; 3 267; 262; 6182; 91517; 61387; 91087; 867; 67; 1 55; 47; 67; 1	- STR. 0817
557	4 48, 39, 0 37, 9 36, 32, 9 36, 487, 36, 436, 35,	STR. ABS1
333	5 38, 3 38, 9 607 9 417 9 487 9 447 , 427 , 51, 4 57, , 65,	
553	6 78, 5 78, 0 897 0 977 01087 01187 11887 (231, 4179, 1261,	8TR 823
224	7 145, 1109, . 857 0 717 . 687 9 547 , 497 , 45, 2 42, , 39,	STRL 0824
229	8 37, 7 39, 6 847 7	STR_0225
226	DATA (STARCKIZE) KOS, 73) /	STRL0226
227	1 35, , 34, , 387 9 337 . 34. 9 357 ; 37, , 37, , 35, , 39, ,	STAL 0227
228	2 48, , 42, 0 497 9 507 . 977 9 717 9 68, , 93, #112, ,216,	STRL 0228
528	3 502, 6215, 61647 91867 61187 9 927 , 767 , 59, 5 49, 7 43, 1	124F 955
521	4 30: 0 35: 7 34? 7 84? 0 34? 7 34? 7 33? 1 33: 0 33: 1 32: 1 33: 0 35: 7 37? 9 37? 4 48? 7 42? 7 45? 1 48: 4 54: 63: 1	
232	6 72, . 80, . 907 91027 -1077 91107 :1417 .218, .199, :269, :	258071154
233	7 190, 120, 917 9 937 . 627 9 967 9 927 1 47, 2 48, 1 40, 1	EFRI AGEL
234	8 37, 0 39, 0 897 /	STRL0234
235	DAVA SSVARCKIZ1).Keg.73) /	STRLORSS
236	1 37: 0 30: 0 36? 9 36? 0 37? 9 38? 1 69? 1 39: 0 40: 1	STRL6236
237	2 42, 42, 697 9 507 6 987 9 707 7 887 , 93, 138, 281,	STRL0237
238	3 270, 189, 1427 1167 . 987 9 797 7 657 , 53, 4 45, , 39,	PSTRL0838
239	4 35, , 33, , 52? y 31" , 62" y 82" , 42" , 32, s 31, , 30, , 5 32" , 34, , 56? y 37" , 36? y 40" y 42; , 46, g 52, , 60, ,	95TRL0239
241	5 32. 34. 9 36. 9 37. 38. 9 40. 9 42. 46. s 52. 60. 1 6 78. 82. 9 94. 9109. 129. 916. 128. 128. 1283. 1245. 1292.	73TKL0840
242	7 103, 137, 11827 9 797 6 677 9 607 ; \$47 , 50, 4 47, 4 44, 1	F3   TL UE 7 L
203	8 48, 4 38, 9 37? #	STRL0243
204	DAYA 45YAR(K)22).K-4.75) /	STRL0244
245		STRL0945
246	2 42, 43, 645? 9 50? 6 57? 9 72? 8 82; 4163, 4217, 1296, 1	STRL 0246
247	3 217, 158, 4160? 9 987 + 837 9 707 , 78, , 48, 2 41, , 37,	STRL 0247
248	4 38, , 31, , 30? 9 50? , 30? 9 81? , 81? , 31, , 30, , 29,	STR 0248
249 250	5 30, 1 33, 0 34? 9 35? 0 35? 9 35? 1 46? 1 44, E 50, 1 57,	STRL 0249
251	6 68, 80, 967 94147 41827 91317 11827 1231, 1236, 1237, 1	טפשה ואזכי
252	7 198, 1160; 11857 v 927 1 787 v 647 1 66; 1 55, v 52, 1 49; 1	STR. 0871
253	DAYA 45 YAR (K. 23) . Ke (. 23) /	STR_0252 STR_0253
AFT.	1 49, 448, 677 9 477 - 487 9 477 1 477 1 45, 1 45, 1 45, 1	STRL 0254
255	2 44, 44, 9 67? 9 54? 6 69? 9 75? 7 76? 1551, 8276, 1250, 1	STRL 0255
296	3 179, 1128, 7 987 \$ 847 . 787 7 637 , 587 , 45, 7 39, 35, 1	STRL0256
257	4 32, , 30, , 89? 9 88? . 29? 9 29? . 46, , 30, , 29, , 29,	STRL 0257
258 259	5 36, , 32, y 33? y 34? , 38? y 86? , 89; , 42, , 47, , 55, 1	STRLOESS
590	6 95, , 78, y 95? 9916", +139" 9192" +130" +137, +209, +296, + 7 231, +193, +193? 9818", + 88" 9 74" 9 68? + 64, + 60, + 56, +	PSTRLOESY
261	8 93, 5 51, 6 69?	STRL 0261
262	DAYA 66 TAR 5K124) Ka6.73) /	STRL0262
263	1 68, , 58, , 577 9 56? , 55? 9 54? , 52? , 50, , 49, , 47, (	STRLOP63
264	2 69, , 46, , 927 9 627 , 797 9 877 , 1891 , 233, , 257, , 288, ,	STRL0264
265	3 239, 0602, 0 647 9 747 0 627 9 567 , \$67 , 44, v 38, , 34,	STRL 0265
266	4 31, 30, 9 297 9 287 a 287 y 277 a 27, a 28, 30, 1	STRL 0266
267	5 367 : 31: 0 827 9 837 . 897 9 867 : 887 : 42. 0 46. : 53. 16 68; 775 0 917 91147 01887 91627 :195; :441, :174, :283;	95TRL 0867
268 269	7 744 177 9 VIT PILTY SIDEY PIDZY 1177 1241, 1174, 1263, 1	214 0268
278	7 314, 5233, 91987 91957 01287 9 987 , 827 , 75, x 71, , 68, 68, , 62, 0 607 8	
271	DAYA SSYARCKIZED, Med. ZE) /	STRL 0270 STRL 0271
272	1 75; , 72, 9 69? 9 66? . 66? 9 61? 7 98, , 54, # 51, , 49,	STRL 0272
273	2 50, , 54, , 54? 7 74? . 87? 7110? 1175, ,241, ,187, ,143, ,	STRL 8273
274	3 109, 86, 967 9 667 9 687 9 987 3 487 42, 437, 33,	STRL0274
275	4 31, 30, 9 897 7 807 2 277 241 27, 31, 28, 28,	STRL0275
276	5 29, , 29, , 317 9 827 + 387 9 367 v 387 , 41, , 46, , 52,	STRL 8276
277	6 617 72, 9 867 91087 -1387 91987 1172 1195, d102, 1241, 1	5TRL0277
278 279	7 348, #15, #237? 9297? #168? 7133? 7198; # 95, # 87, # 83, 1	
280	B 54. 78; 78; 79; 4 DAYA \$SYAR; K; 26; K; 6:73; /	STRL0279
587	1 92, 87, 9837 9 787 6 727 9 697 9 687 1 68, 8 98, 8 99, 9	STRLOESO STRLOES
282	2 66, 771, 781? 9 937 -1187 91727 12287 1466, 1136, 1211, 1	STRI ADAD
283	3 98, 78, 902 9 647 - 97 9 527 7 667 641 8 37, 8 36,	STRLAGAS
284	4 32, . 30, . 80? 9 29? . 21? 9 29? 9 86; . 30, . 29, . 28,	STRL0284
295	5 25 27 9 800 8 347 2 367 8 367 8 367 4 44 4 46 4 84	
286	6 59, , 68, , 81? 9 99? -128? 9145? 1167, 1166, #162, 1296, 1	STRLORSS
287	7 304, 1890, 98637 92407 -2857 91747 1127 129, 1114, 1207,	PSTRLOB87
288	8 102, , 96, 6 927 /	STRLO288

289	DAYA (STER(K.27), Ked. 73) / STRLeger
340	1 113, 100, 91807 9 937 . 877 9 827 , 78; , 76, , 77, , 80; #STRL0290
291	2 85; ; 92; 91827 91177 01667 91887 9181; st21; s105; s 92; s878[0891]
293	3 91 , 73, 4 66? 9 61? 6 59? 9 51? 8 65? 8 61, 8 35, 8 35, 957R 6892 4 35 , 315 6 86? 9 51? 6 38? 9 31? 8 67 8 36, 8 87, 8 28,
294	5 29 # 367 # 317 + 367 # 357 # 317 ; 41, # 45, # 56, #STR 6894
299	5 97; , 69, 4 99? 0 90? 0114? 9136? 9169? ,263, 8161, ,278, 957R 6895
296	7 238; ,848, ,4307 93277 .2487 \$2107 ,1887 ,169, #154, ,240, #STRL6296
297	8 129, /120, +1837 / STRL0897
548	DAYA \$5VAR(K128), K62,73) / STRL 896
399	1 142, ,133, 91847 91177 -1127 91077 ,1887 ,101, a101, ,203, 9578L0899
300	2 107, 113, 1877 #1527 1687 #1867 #186, #3, #88, #83, #STRL0500
301 382	3 76, 69, 0 64? 9 39? 0 38? 9 36? 0 45; 42, w 39, 4 36, w5TRL0801 4 34, 33, 2 33? 0 32? 0 38? 9 31? 8 32; 8 31, w 38, 8 5TRL0802
303	4 34, 33, 837 0 827 6 387 9 827 8 827 8 827 8 31, 8 38, 8578 6862 5 87, 30, 8 817 8 827 6 887 8 867 8 867 8 45, 8 45, 8 56, 8378 6863
304	5 897 , 30, v 817 v 827 o 887 v 867 v 867 , 41, x 45, , 56, e37RL 6863 6 96, 63, e 917 v 827 o 987 v 1887 ; 1867 ; 263, e181,
303	7 198, 7251, 03867 94047 03497 92547 02857 1694, 8179, 1868, 9878 0805
306	8 160; 151, 1627 / STRL 8806
367	DATA ASTARCKI291 MAS.731 / STR. asa7
358	1 1947 11476 91407 91847 -1297 91297 1184, 1120, 1120, 1222, 137R 0808
309	2 1271 /146: 91917 91827 +1887 9 877 : 85; : 85; : 79; VSYRLOSO9
310	3 /3, , 0/1 , 027 Y 377 4 NOT Y 477 3 437 1 421 1 481 1 281 0 3 THLONG
311	4 39; 35; 9 347 9 347 0 387 9 837 9 827 1 32; 8 32; 7 31; 957RL0811
312 313	5 34, 0 30, 7 82? 9 33? 0 38? 9 37? 1 39? 0 42, 0 46, 0 56, 957RL6512 6 59; 0 61, 7 68? 9 76? 0 68? 9 98? 1167 021, 4131, 1240, 037RL6513 7 198, 187, 7283? 9318? 0368? 9560? 288; 122?, 4199, 7262, 757RL6514
313	7 198 467, 2082 03467 43407 89467 4288 4007 400 460 2000 4844
315	8 171, (162, e1947 ) STRL6819
316	DAYA SYAREKISO) Kag.73) / STRL0316
317	1 167, 158; v1917 v1467 01487 v1887 v1887 1236, u143, 1447, vSTRL6317
318	2 139, 121, 1027 9 837 . 757 9 727 , 75, 78, 77, 75, STRL0318
319	3 71. 65. 400 8 55? 4 52? 8 48? 8 48. 42. 44. 39. 4578 6549
320	4 38: 37: 0 36? 0 35? 0 35? 7 34? 1 38: 33. 1 33. 1 33. 1 STRL0320 5 33: 33: 0 33? 7 35? 0 32? 7 38? 7 66? 43: 46. 56. 56. 57RL6821
321	5 55, 59, 642 0 707 4 777 9 857 , 98, 463, 4 60, 4647, 6578, 6821
322 323	5 54, , 59, 9 647 9 707 0 797 9 857 : 94, 1102, 1109, 1117, 9578L6522 7 127, 1144, 11667 91967 02697 92937 93227 1805, 1271, 1225, 9878L6523
324	8 195, 179, 1677 / STRL6924
325	DAYA 18YAR (K.31) . Kas.73) / STRL0329
326	1 209, 1197: +\$62 91777 +1687 91997 :148, :134, :128, :205, +STRL0326
327	2 90 75 69? 9 66? . 65? 9 72? 9 77, , 79, 1 76, , 72, 9STRL6827
328	3 68, , 63, 0 587 9 547 6 587 9 487 , 457 , 43, 1 42, , 41, 1 STR 6328
329	4 40, , 34, 9 38? 9 37? 9 35? 9 35? , 45? , 35, , 35, , 37, , 37R, 6529
330	5 36, , 36, , 377 9 887 . 377 9 417 9 427 , 45, , 47, , 50, ,STR, 0330
337	6 54, 57, + 817 + 667 + 787 + 767 , 82, , 87, , 93, , 97, +STR[6331
333	7 188, 7111, 61837 91877 41597 91697 /1987 /218, #250, /231, PSTR 0332 8 227, 7219, 42897 / STR 0333
334	B 227, 2219; 62897 / STR[0833 DAYA \$578R(K;32); K68,23) / STR[0834
335	1 137, 133, 91877 91207 -1627 91037 9 98, , 84, , 75, , 76, STRE6335
336	2 68, , 65, e 867 9 697 . 787 9 777 1 787 , 76, , 72, , 69, estale336
337	3 65, 61, 61, 877 9 557 o 587 9 497 v 477 , 45, 444, , 43, 987RL6837
338	4 42, 41, 4 667 9 407 . 377 9 387 9 387 , 38, 4 38, 4 38, 4 37RL6338
339	5 37, 37, 7 46? 7 41? 6 48? 7 45? 46, 46, 48, 7 51, FSTRL6839
340	6 337 , 56, 9 397 \$ 627 c 657 9 697 , 78, , 78, , 80, , 83, 6STRL0340
341	7 88, 90, 7 957 91017 -1087 91247 ,1267 ,125, +129, +232, +STRL0341
342	B 137, 139, 1377 / STRL0342 DAYA \$578R(K133) Hma.73) / STRL0343
364	DAYA \$578R(K:33).Ka8.73) / STRL0843
345	2 68; 70; 0 75? 0 75? 0 76? 0 76? 1 78; 1 71; 0 69; 1 66; 987RL0345
346	3 63, 60, 9 967 9 937 . \$87 9 967 1 48; 47, v 46, 49, estale346
347	4 44, 7 43, 9 42? 9 42? . 48? 9 45? , 41? , 41, 4 41, 4 41, 45 HL 0347
348	5 41; 42, 6 62? 9 43? 6 45? 9 45? ; 46? , 48, s 69, , 51, estrosas
349	6 53, 55, 9 57, 9 597 6 687 9 647 4 687 4 68, 4 71, 573, STRL0349
390	7 79, 777, 0 967 9 817 . 827 9 877 9 897 , 91, 0 92, 1 92, STRL 6350
391	8 91, 894 877 / STRL0891
352 353	DATA (SYAR)K(34) K(43.73) / STRL0852
354	1 76, 2 75, 9 847 9 747 . 787 9 727 3 727 3 72, 3 73, 3 74, 9STRL0893 2 74, 74, 9847 9 737 . 787 9 717 9 697 67, 3 65, 3 63, 9STRL0854
355	3 91, 6 50, 9 567 9 567 9 567 9 517 4 56, 48, 48, 47, 457RL6355
356	4 48: 45: 45: 45? 9 44? 0 48? 9 44? y 45: 1 43, 1 48, 1 44, PSTRL6356
357	5 44, 44, 4 497 9 467 . 497 9 477 : 487 : 49, . 56, . 52, OSTRLOSS7
358	6 95, 34, 4 967 9 977 . 917 9 657 4 627 4 63, 8 65, 4 66, 957RL6598
359	7 69, 69, 9 717 9 727 6 727 9 747 , 75, 1 76, 1 77, 957RL359
360	5 77, , 76, 9 767 / STRL0360
361	DATA \$574R(K:39).K(4.73) / STRL6841
362	1 71, 71, 9 917 9 717 . 727 9 717 ; 72 , 71, 4 78, 5 70, 57RL6362

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363
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356
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366
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350
                  DAVA (STARCK; 30) . Keg. 73)
370
                                                                                                              STRL 0370
                             54, 64, 647 9 647 6 657 9 447 7 644 4 64, 8 64, 8 63, 95TRL0371 637 4 63, 63, 95TRL0372 57, 637 9 627 9 627 9 647 8 664 8 59, 8 59, 8 58, 95TRL0372 57, 7 57, 7 567 9 557 9 547 8 53, 8 53, 8 53, 8 52, 95TRL0373
371
372
373
                   3
                                                                                   # 53. # 58. # 52. #STRL0873
                                   . 52, v 927 9 917 . 987 9 917 0 926

. 52, v 927 9 927 0 867 9 937 1 986

. 55, v 947 9 947 9 977 9 987
374
                              72,
                                                                                              911
                                                                                      51, #
                                                                                   .
                                                                                                   , 51 . #STRL0374
                                                                                   93, # 54, / 54, *STRL0375
375
                              510 :
375
                             607
                                   4 600 9 617 9 617 0
                                                              687 9 627 . 68, . 63, . 63, . 63, . STRL0977
377
                    DAYA $574REKI371. Hag. 73) / 2345778/
378
                                                                                                              STRL0378
378
                                                                                                              STRL0379
                    ARGSINVX] CXTANZEX, SORTIE . CXXX) STRLOSSOR RECNE THE THE THERTIAL SATTUDE AND LONGITUDE OF THE POINT IN THE SKY STRLOSSOR STRLOSSOR
380
            C DETERMENS
381
                           SETUSORT (WIONI -H20W2 4W38W3)
382
                                                                                                              STRL0382
                    AS
AZ
                            SHE OUMAG
383
                                                                                                              STRL0383
384
                                                                                                              STRL0384
                            SHESHHAG
                    A3
325
                                                                                                              STRLOSSS
386
                    PHIS
                            SARCSIN(AS) SRUD
                                                                                                                             5
                                                                                                              STALOSES
            OMBGASATANZ(AZAA1) ORTD

IF (GMEGAG'L'T.G.) OMEGAG: 350? . DMEGAG

C DETERMINE THE LATITUDE AND LONGTTUDE AREA OF THE TABLE TO BE
387
                                                                                                              STRL 5387
                                                                                                                             6
BAR
                                                                                                                             7
                                                                                                              STRL 0388
389
                                                                                                              STRL 0389
            C CALCULATE LONGITUDE INTERVAL FOR REGREE VASLE AREA
390
                CONSIDERED
                                                                                                              STRL6890
391
                                                                                                              STRL 0391
                                                                                                                           10
392
                                                                                                              STRLA392
                                                                                                                           11
393
                                                                                                              STRL0393
394
                                                                                                              STRL 0394
                                                                                                                            12
395
            S CALCULATE LATITUES INTERVAL FOR PROPER VABLE AREA
                                                                                                              STRL0395
                                                                                                                            13
396
                                                                                                              STRL0395
397
                            $50J 090
                                                                                                              STRL0397
                                                                                                                           14
                            aP2 -5.0
398
                                                                                                                           15
                                                                                                              STRL0898
            C CALCULATE STAR BRIGHTNESS AV (PK-GMEGAG)
SVE #STAR(R+E-J) - ttgTAREM#1.#}-BTAREM,J); *(82-0MEGAG)&(82-Q1)STRL0401
STRL0401
399
400
                                                                                                                            16
401
                                                                                                              STRL 64n1
            C CALCULATE STAR BRIGHTNESS AT (P2. BMERAG)
402
                                                                                                              STRL0402
                            =STAR(K+14J+1) = {\STAR(R+1+2)+2}+2}=STAR(K+J+1)) = (02=0MEUAG)/(02=01))
403
                                                                                                              STRL0403
                                                                                                                           17
404
                                                                                                              STRL0404
            C CALCULATE STAR BRIGHTNESS AT (PHIG, CHEGAS)
STR 4872 & ((ST2-871) ** (#2 **P#16))
405
                                                                                                              STRL0405
            STR 4872 & ((ST2-871) * (R2 -PUTG); / (P2 - P1) C CONVERT STAR BRIGHTNESS TO RAVLBIGHS RER ANGSTROMS
406
                                                                                                              STRLOGGÓ
                                                                                                                           18
407
                                                                                                              STRL0407
                ST #0.0039 # STR
                                                                                                              STRLOGOS
408
                                                                                                                           19
409
                                                                                                              STRLOGOS
                                                                                                                            20
410
                    RETURN
                                                                                                              STRL 0410
                                                                                                                           21
                                                                                                              STRL0411
411
                    END
                                                                                                                            55
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27396 WERDS OF MEMORY USED BY THIS COMPILATION

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67906 02 09-25-72 12,223 YABLE OF UNRESQLEED STARLIGHT
67806 02 09
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3 BPMM3 SAMMEN

4 SORY 5 AVANZ	en en le		
THERE WERE	HE NEXT AVAILABLE LOCA NASSEMBLY DATES JM HO WARNING FLAGS ONDS OF MEMORY WERE US	TION# PA 690179/052571 JMRB 096171/052571 JMPC 0 IN THE ABOVE ASSEMBLE ED BY GMAP FER THES ASSEMBLY	50171/058571
67906 ng 09	7-25-72 12,233 YOY	AL SHY BRIGHTNESS AFVER BELEASE	
		mmacoboodedSUBROUTINE TRACKOOGGOOGGOOGGOOGG	*****
1 2	CYREC YOTAL SKY	BRIGHTNESS AFTER RECEASE	TRAC6801
3 4	Cuesdenesyary of Boc	UMENTATION CARDSono e concence e concente e concence e concener e concence e concener e	TRACOSOS OTRACOSOS TRACOSOS
5	CaessassMASA WALLOPS	VERSION OF \$2161420	TRAC0806 TRAC0807
- 6	Coocees ANGUAGE FOR	TRAN I'y	TRACOSOS
9 10 11	C C C C C C C C C C C C C C C C C C C	25	TRAC0009 TRAC0010 TRAC0011
13	C PURPOSE-	IF THE YOTAL SKY BASKGROUND BRIGHTNESS HILL EXCES	TRACOB12
14	C YWE CONSTRAI	NT LIMITATION BURING THE REQUIRED EXPERIMENTAL	TRACOS14
16	CaeseeeekE\$HQDe		TRACOG16 TRACOG17
18	C GIVEN A FAVO C SUGROUTINE N	RABLE TIME OF BELFASE FOR STATIGHTS FROM LITE-DETERMINE IF THE TOTAL SET BACKGROUND	TRACOSIS TRACOSIS
20	C BRIGHTNESS I	S EXCEEDED DORING THE EXRERIMENTAL PERSOD OF S AT 30 MINUTE INTERVALSTHE INDERTIAL SECTARGOLAR	TRACOUSO
5.5	C COMPONENTS O	F THE VECTOR FROM STATION(I) TO THE CLOUD'S ING THE EXPERIMENTAL PERSOD ARE FIRST GALCULATED.	TRACO921
52	C AME ANTOER O	F ZODIACAL LEGAT AND STABLIGHT ARE DETERMINED	TRACOP23
26 25	C TOTAL SKY BA	DUTINES ZODLIT AND STRLIT RESCROTIVELY, THEN THE DRORDURD BRIGHTNESS IS CALCULATED USING THE	TRACO825 Traco826
27		ALUES OF AIRGUEN SEISHTNESS OF FOUND IN	TRAC0027 TRAC0020
30 5è	C CHMCKED AGAI	NST THE CIVER CONSTRAINTIF THE GIVEN CONSTRAINT I ANY POINT CHECKESSTHEN THE EVENT CODE IN: IS SET T	STRACO829
31	C ONE AND THE	SUBROUTINE TONNINETRO:	TRACOO31
33	CeessassasiMpUTS		TRACOSS TRACOSS TRACOSS
35 36 37	C R(\$)	- INPUT VALUE FOR THTAL SKY BACKGROUMD BRIGHTNESS	TRACO835
38	C GHÁ	-GREENWICH MEAN SIDEREAL MOUN ANGLE AT ZEGO HOUR -UNIVERSAL TIME (MRS)	TRAC0839
40 43 42	C WA 61827)	-AIRGLON DEIGHTERSE PROM A GIVEN STATION TO THE -GIVEN POSTTION OF THE CLOUD (RAYLEIGHS)	TRACOS40 TRACOS41 TRACOS42
43 44 45 86	C G(\$2.7)	- GOEFFICIENT DERENGENT UPON THE RELATIVE COSITIO - OF THE TRECKING STATION TO THE CLOUD AND USED T - SOLVE FOR THE TOTAL SKY BACKGROUND SRIGHTNESS	
47 48 49	C Jane	-NUMBER OF DISSESTE VALUES STORED FOR -EMPERIMENTAL PROISED DATA	TRACOS47 TRACOS48 TRACOS49
50 51 52	C ZB	-ZODIAGAL LIGHT BREGHTNESS OF A BOINT IN THE SKY	TRAC0850 TRAC0851 TRAC0852
53 54 55	G B B F	-UNRESQLYED STAR SRIGHTNESS OF A POINT IN THE SK - (RAYLBESHS)	TRACOSS3
56 37	C HP#(42) %)	-VALUE OF GEGESTASC X COMPONENT OF VECTOR FROM	TRACO056 TRACO057
58	C	-STATION TO GLOTD AT DESCRETE TIMES AFTER RELEAS	STRAC6850

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- 59
                                                                                              TRACO859
 60
                     MBAA15'A)
                                     -VALUE OF GEGCENTRIC V COMPONENT OF VECTOR FROM TRACORGO
                                     -STATION TO GLOUD AT DISCREVE TIMES AFTER RELEASETRACOGES
 91
          C
 62
 63
                    WPZ(12.7)
                                     -VALUE OF GEOCESTRAC Z COMPONENT OF VECTOR FROM TRACORGS
 64
                                     -STATION TO GLOUD AT DISCRETE TIMES AFTER RELEASETRACODAS
 65
                                                                                              TRACOB65
                                     -PRESENT UNITERSAL PINS FOR RELEASE
 66
                                                                                              TRACOB66
 97
                                                                                              TRACOB67
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                    1
                                     -SVATION NUMBER
                                                                                              TRACOS68
 69
                                                                                              TRACOS69
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          Cassasaguyauy-
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                                     - EVENY CODE
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 74
                                     " BOTTP BYTLE RES
                                                                                              TRACOS74
 75
                                     - atyle stren,ass)
                                                                                              TRACOUTS
 76
                                                                                              TRACOS76
 77
          CassesserESTRICTIONS
                    THIS SUBREUTINE ACCEPTS UP TO A MAXIMUM OF TWELVE TRACKING TRACOGTS
 78
 79
 80
          C
                    MINUTE INTERVALS DURING THE STREETHENTAL PERIOD.
                                                                                              TRACESSO
 29
                                                                                              TRACOUST
82
          CheesessUSPNOGRAMS REQUIRED.
                                                                                              TRACOSEZ
83
                                                                                              TRACODES
 84
                                                                                              TRACGG84
 85
                           ZYABLE
                                                                                              TRACOBS5
 56
                    STRLIT
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 87
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 88
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          CanadasaaEND OF DOBUMENTATION CARDSSachbasaasaaaaaaaaaaaaaaaaaaaaaaaaaa
 89
                                                                                             STRACOSS
 90
                                                                                              TRACOSOD
 91
                 SUBROUTINE TRACK (TONT!)
                                                                                              TRACOG91
                 COMMON/BLKC12R(S)
COMMON/BLKC12R(S)
COMMON/BLKC12R(S)
 92
                                                                                             TRACES 3
 93
                 COMMON/BEKS/ SUNE, GHA
COMMON/BEKS/ SUNE, GHA
COMMON/BEKS/ SUNE, GHA
COMMON/BEKS/ SUNE, GHA
COMMON/BEKS/ SUNE, GHA
COMMON/BEKS/ SUNE, GHA
 94
                                                                                              PRACOM96
 95
                                                                                              TRACOMPS
96
                                                                                              TRACC096
 97
                 COMMON/ELKN3/ZD. ST
                                                                                              TRACBO97
                 COMMON/BLKN5/HPX(1207), HFY 1207), BPZ(82,7)
 98
                                                                                              TRACO298
 99
                                                                                              TRACOQ99
          C CILCULATE THE UNIVERSAL TIME IN UGURS FOR THE POINT TO HE COMPOTED,
100
                                                                                              TRACO100
                 DO 100 JES-JEND
101
                                                                                              TRACOSOS
102
                                                                                              TRACCA62
                        er - 0,500/7J=170)
103
                                                                                              TRACO103
          C CALCULATE THE SINE AND GOSTHE OF THE MOUR ANGLE FOR TIME TP.
104
                                                                                             TRACOSOS
TRACOSOS
          CS *COS!(SHA > TR * DOHA) & MTR)

C DETERMINE THE THERTIAL RESTANGUIAS COMPONENTS OF THE VECTOR FROM
C STATION(1) TO THE CLOUD'S PRESENT FXXITION?
106
                                                                                              TRACOSO6
107
                                                                                              TRACOSO7
100
                                                                                              TRACOSOS
109
                        ##XELTI . 08 - MPY(113X MP & 68
                                                                                              TRACGASS
110
                                                                                              TRACOS10
222
                                                                                              TRACG211
182
          C FIND THE SKY BRIGHTNESS DUE TO ZODIADAL LIGHT AND STARLIGHT
                                                                                              TRACGA12
                 CALL ZODLIY (TP)
113
                                                                                              TRACOS13
114
                                                                                              TRACOS14
                                                                                                         10
          C FIND TOTAL SNY BRIGHTNESS
115
                                                                                              TRACOS15
                        sma(T.J) + ((SY+Zb) + Cel.d))
116
                                                                                              TRACOS16
                                                                                                         11
              10 CONTIQUE
117
                                                                                              TRACOS17
          C RETURN IF ST.GY.R(5).OTHERWISE CONTINUE
IF (BY,LY,R(5)) GO TO 180
118
                                                                                              TRACOSSO
119
                                                                                                         13
                                                                                              TRACOS19
                                                                                              TRACOSEO
120
221
                 報信では常性
                                                                                                         17
                                                                                              TRACO221
            196 CONTIBUS
122
                                                                                              TRAC0122
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123
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124
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906 08 09-1		
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PROGRAM (		
COMMON L		
A CHRIS !	1149 3	
PRIMERY SY	HOSP ENTRY	
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CONDERY SY	ADBP BNYNY	
BPERK	CENGTH	
1 86461	39	
3 8FM8	29	
4 BPMA	75	
5 91,481		
6 BLKHS 7 BLKHS		
SAMBEL		
0 693		
1 519		
2 578417		
3 ZODHIT	NEXT AVAILABLE LECATIONS	
TERE WERE	NO WARNING FLAGS IN THE ABOVE ASSEMBLY	
19307 WOR		
19307 WOR	NO WARMING FLAGS IN THE ABOVE ASSEMBLY POS OF HEMORY WERE USED BY GHAP FOR THIS ASSEMBLY?	3171/05R!
19309 HOM	NO WARMING FLAGS IN THE ABOVE ASSEMBLY DS OF HEMORY WERE USED BY GMAP FOR THIS ASSEMBLY? 25-72 12.245 LAUNCH WINDOW OUTRUT  BESEESSTRUST OF CUTSTON OUTSTRUCK OUTSTONE CUTSTONE CONTROL OF CONTROL OUTSTONE CUTSTONE CUTSTO	1 <del>0 0 0 0 0</del> 0 0
19309 HOR	BUTL LAUNCH WINDOW OUTPUT  BESTERSONSTANDEN OUTPUT  BUTL  LAUNCH WINDOW OUTPUT  BUTL  LAUNCH WINDOW OUTPUT  BUTL  LAUNCH WINDOW OUTPUT	0U718 <b>8</b> )
19309 HOR	BO WARNING FLAGS IN THE ABOVE ASSEMBLY?  DS OF HEMORY WERE USED BY GMAP FOR THIS ASSEMBLY?  25-72 12:245 LAUNCH WINDOW OUTRUT  BEGERSON-FORSUSED BY GUTS	0U7186); 0U7186); 0U71860;
19309 HOR	BO WARNING FLAGS IN THE ABOVE ASSEMBLY?  SOF HEMORY WERE USED BY GMAP FOR THIS ASSEMBLY?  25-72 12:245 LAUNCH WINDOW OUTRUT  BESSESSESSESSESSESSESSESSESSESSESSESSESS	0UT186) 0UT186) 0UT186 0UT188
19309 HOR	BO WARNING FLAGS IN THE ABOVE ASSEMBLY?  SOF HEMORY WERE USED BY GMAP FOR THIS ASSEMBLY?  23-72 12.245 LAUNCH WINDOW OUTRUT  BESEERSOFFINESUSTINES CUTSOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCC	0UT186) 0UT186) 0UT1880 0UT1880 0UT1880
19309 HOR	BO WARNING FLAGS IN THE ABOVE ASSEMBLY  DS OF HEMORY WERE USED BY GMAP FOR THIS ASSEMBLY?  23-72 12.245 LAUNCH WINDOW OUTRUT  BESEERSON PROSENTING CUTSON OF SCHOOL OF	0U7186)
19307 HOR	NO WARNING FLAGS IN THE ABOVE ASSEMBLY?  25-72 12.245 LAUNCH WINDOW OUTRUT  BENERAL SERVEYS BERNELY;  BUTL LAUNCH WINDOW OUTRUT  BENERAL SERVEYS BERNELY BUTTS OF STATES OF SERVEYS OF SERV	0UT1080 0UT1080 0UT1080 0UT1080 0UT1080 0UT1080 0UT1080
19307 HOR	NO WARNING FLAGS IN THE ABOVE ASSEMBLY?  25-72 12.245 LAUNCH WINDOW OUTRUT  BENERAL SERVEYS BERNELY;  BUTL LAUNCH WINDOW OUTRUT  BENERAL SERVEYS BERNELY BUTTS OF STATES OF SERVEYS OF SERV	0UT1060 0UT1060 0UT1060 0UT1080 0UT1080 0UT1080 0UT1080
19307 HOR	NO WARNING FLAGS IN THE ABOVE ASSEMBLY  DS OF HEMORY WERE USED BY GHAP FOR THAS ASSEMBLY?  25-72 12.240 LAUNCH WINDOW OUTRUT  BENEFICE OF STANDARD OF STANDARD CONTROL	0UT166) 0UT1660 0UT1680 0UT1680 0UT1680 0UT1680 0UT1680 0UT1680
19307 HOR	NO WARNING FLAGS IN THE ABOVE ASSEMBLY  DS OF HEMORY WERE USED BY GMAP FOR THRE ASSEMBLY?  25-72 12.245 LAUNCH MINDOW OCTRUT  BESESSENSESSESSESSESSESSESSESSESSESSESSES	OUT168) OUT1680 OUT1680 OUT1680 OUT1680 OUT1680 OUT1680 OUT1680 OUT1680
19307 HOR	NO NARMING FLAGS IN THE ABOVE ASSEMBLY  DS OF MEMORY WERE USED BY GMAP FOR THE ASSEMBLY?  25-72 12.240 LAUNCH WINDOW OUTRUT  BENEFICOUSESSESSESSESSESSESSESSESSESSESSESSESSES	OUT166) OUT1660 OUT1680 OUT1680 OUT1680 OUT1680 OUT1680 OUT1681 OUT1681
19307 HOR	NO WARMING FLAGS IN THE ABOVE ASSEMBLY  DS OF HEMORY WERE USED BY GMAP FOR THIS ASSEMBLY?  25-72 12.240 LAUNCH MINDOW OUTRUT  BUTL LAUNCH MINDOW DUTPUT  BUT	OUT166) OUT1660 OUT1680 OUT1680 OUT1680 OUT1680 OUT1680 OUT1681 OUT1681
19307 HOR	NO WARMING FLAGS IN THE ABOVE ASSEMBLY?  25-72 12.245 LAUNCH WINDOW OUTRUT  BENEVIOUS OF THE CUTTS OF LAUNCH WINDOW OUTRUT  BUTL LAUNCH WINDOW OUTPUY  BENEVIOUS OUTS OUTS OUTS OUTS OUTS OUTS OUTS O	OUT166) OUT1660 OUT1680 OUT1680 OUT1680 OUT1680 OUT1680 OUT1681 OUT1681 OUT1681 OUT1681
19307 HOR	NO WARNING FLASS IN THE ABOVE ASSEMBLY?  25-72 12.245 LAUNCH MINDOW OUTRUT  BENEZISSENSTRUCTURE CUTTESSENSOR OUTSUT  CAUNCH MINDOW OUTPUT  BENEZISSENSTRUCTURE CUTTESSENSOR OUTSUT  BENEZISSENSTRUCTURE CUTTESSENSOR OUTSUT CARDSON OF SEXULATO  BENEZISSENSTART OF BOCUMENTATION CARDSON OF SEXULATO  BENEZISSENSTART OF BOCUMENTATION CARDSON OF SEXULATO  BENEZISSENSTRUCTURE VERSION OF SEXULATO  BENEZISSENSTRUCTURE OF SES  BUSINSON OF SEXULATO  BUSINSON OF SEXULATO  BUSINSON OF SEXULATO  BUSINSON OF SEXULATO  BUSIN THE DAILY RELEASE TIMES PER CONSTRAINT PRO STATION ON OUTPUT FILE OT.  BUSINSON OF SEXULATER NUMBER, WRITH THE CONSTRAINT  BUSIN THE PROPER CONSTRAINT INDEX NUMBER, WRITH THE CONSTRAINT	OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081
19307 WOR	BO WARNING FLAGS IN THE ABOVE ASSEMBLY  DS OF HEMORY WERE USED BY GHAP FOR THIS ASSEMBLY?  25-72 12:255 LAUNCH MINDOW OUTRUT  BESSESSESSESSESSESSESSESSESSESSESSESSESS	OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081
19309 WOR	SO WARMING FLAGS IN THE ABOVE ASSEMBLY  DS OF HEMORY WERE USED BY GMAP FOR THIS ASSEMBLY?  25-72 12.240 LAUNCH MINDON OUTRUT  BREAKSON FOR SUBSEMBLY IN CUTSES CONSTRAINT PROSPECTORS  BUTI LAUNCH WINDON DUTPUT  BREAKSON FOR BUTTING GUTTS CONSTRAINT PROSPECTORS  BOUTE CAUNCH WINDON DUTPUT  BOUTE CAUNCH WINDON DUTPUT  BOUTE CAUNCH WINDON DUTPUT  BOUTE CAUNCH WINDON OF B2/01/70  BOUTE CONSTRAINT  BOUTE CONSTRAINT  BOUTE CONSTRAINT  BOUTE THE DAILY RELEASE TIMES PER CONSTRAINT PROSPECTORS  BOUTE THE PROPER CONSTRAINT INDEX NUMBER, WRITE THE CONSTRAINT  INDEX NUMBERS THE GUTRENT DATE THE GOUSTRAINT NAME STATION ON NAME (IT BOT EARTH SHADON ECONSTRAINT NAME STATE STATION FELEASE  START/STOP TIMESGAND THE STATERN NUMBER IN PROPER BCD FORMAT TO	OUT108) OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1081 OUT1081 OUT1081 OUT1081
19309 WOR	SO WARNING FLAGS IN THE ABOVE ASSEMBLY  DS OF HEMORY WERE USED BY GMAP FOR THIS ASSEMBLY?  29-72 12.245 LAUNCH MINDON OUTRUT  BREEZESSSYCHERS BY GMAP FOR THIS CUTSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081
19309 WOR	BO WARNING FLASS IN THE ABOVE ASSEMBLY  25-72 12.245 LAUNCH MINDOW OUTRUY  BEAUSESSYSTEMBLY CUTTSSCOOLS CONSTRAINT PRO STATION ON  BOUTS LAUNCH WINDOW OUTPUT  BESUSCOOLS CONSTRAINT PROPER CONSTRAINT PRO STATION ON  CONSOCRATE WALLEDPS VERSION OF 52/01/70  BOSOCOSCALAGE VALLEDPS VERSION ON THE STATION ON OUTPUT FILE OF FROM THE CONSTRAINT NAME THE CONSTRAINT NAME THE CONSTRAINT NAME THE STATION NAME TO FROM THE STATION NUMBER TO FROM GCD FORMAT TO INSURE CONSTRAINT NAME OF THE STATION ON WARE TO FROM THE STATION NUMBER TO FROM GCD FORMAT TO INSURE CONSTRAINT NAME OF THE STATION NUMBER TO FROM GCD FORMAT TO INSURE CONSTRAINT NAME OF THE STATION NUMBER TO FROM GCD FORMAT TO INSURE CONSTRAINT NAME OF THE STATION NUMBER TO FROM GCD FORMAT TO INSURE CONSTRAINT OUTPUT OF THE STATION NUMBER TO FROM GCD FORMAT TO INSURE CONSTRAINT OUTPUT OF THE STATION NUMBER TO FROM GCD FORMAT TO INSURE CONSTRAINT OUTPUT O	OUT108) OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081
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19309 WOR	BO WARMING FLAGS IN THE ABOVE ASSEMBLY:  23-72 12.240 LAUNCH HINDOW OUTRUY  BROWNSHIP OUTSTONE CUTSTONE CUTSTONE CUTSTONE CONSTRAINT OR BOCHMENATION CARREST PER CONSTRAINT PRO STATION ON OUTPUT RIVE OF HE DATLY RELEASE TIMES PER CONSTRAINT PRO STATION ON OUTPUT RILE OT.  BOBSONSHIP OR BOCHMENATION CARREST PER CONSTRAINT PRO STATION ON OUTPUT RILE OT.  BOBSONSHIP OR STATION OF B2/01/70  BOBSONSHIP OR THE DATLY RELEASE TIMES PER CONSTRAINT PRO STATION ON OUTPUT RILE OT.  BOBSONSHIP OR CONSTRAINT INDEX NUMBER, HRITE THE CONSTRAINT INDEX NUMBER-THE CURRENT DATE THE CONSTRAINT INDEX NUMBER-THE STATION NAME (IR NOT EARTH SMADOW CONSTRAINT), THE GALCULATED RELEASE START/STOP TIMES, AND THE STATEON NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO PROPER GCD FORMAT TO INDUME CONSTRAINT INDEX NUMBER TO INDUME CONSTRAINT INDUMENTAL TO INDUME CONSTRAINT INDUMENTAL TO IN	OUT1680 OUT1680 OUT1680 OUT1680 OUT1680 OUT1680 OUT1680 OUT1681 OUT1681 OUT1681 OUT1681 OUT1681 OUT1681 OUT1681 OUT1681 OUT1681 OUT1681 OUT1681 OUT1682 OUT1682 OUT1682 OUT1682 OUT1682 OUT1682
19309 WOR	BO NARMING FLAGS IN THE ABOVE ASSEMBLY  DS OF HENORY MERE USED BY GHAP FOR THIS ASSEMBLY?  23-72 12.245 LAUNCH MINDOW OUTRUT  BEGEFORESHIPS CHARLES CONTROL OUTPUT  BEGEFORESHIPS CHARLES CONTROL OUTPUT  BEGEFORESHIPS CONTROL OUTPUT  BEGEFORESHIPS CONTROL OUTPUT  BEGEFORESHIPS VERBION OF \$2,01,70  BEGEFORESHIPS VERBION OF \$2,01,70  BEGEFORESHIPS THE DATE RELEASE TIMES PER CONSTRAINT PRO STATION ON OUTPUT RILE OT.  BEGEFORESHIPS THE DATE RELEASE TIMES PER CONSTRAINT PRO STATION ON OUTPUT RILE OT.  BEGEFORESHIPS THE DATE OUTPUT RELEASE TIMES PER CONSTRAINT PRO STATION ON NAME IT HE PROPER CONSTRAINT INDEX NUMBER, HRITE THE CONSTRAINT INDEX NUMBER, HRITE THE CONSTRAINT INDEX NUMBER THE STATION NAME IT HE STATION ON NAME IT HE PROPER CONSTRAINT INDEX NUMBER THE GROUNTED RELEASE STATION OF THE STATION OF STATI	OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081 OUT1082 OUT1082 OUT1082 OUT1082 OUT1082 OUT1082
19309 WOR	BO MARMING FLASS IN THE ABOVE ASSEMBLY  DS OF HEMORY WERE USED BY GNAP FOR THE ASSEMBLY?  23-72 12.245 LAUNCH MINDOW OUTRUT  BESTSCHERORY WERE USED BY GNAP FOR THE GUTTSCHESSONS CONSTRUCT  BUTT LAUNCH MINDOW OUTPUT  BESTSCHESSTART OR BOCUMENTATION CARDSCHESSONS CONSTRUCTOR  BOSSCHESSTART THE DATLY RELEASE TIMES PER CONSTRUCT FACTOR ON ON OUTPUT RILE OT.  BOSSCHESSTART MINDOW CONSTRUCT THE STATION ON CONSTRUCT THE STATION ON CONSTRUCT THE STATION NUMBER TO PROPER STATION RECEASE  START/SIOP TIMESAND THE STATION NUMBER TO PROPER SCO FORMAT TO INSURE CONSTRUCTOR SCORE FOR AT TO INSURE CONSTRUCTOR CON	OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1080 OUT1081 OUT1081 OUT1081 OUT1081 OUT1081 OUT1082 OUT1082 OUT1082 OUT1082 OUT1082 OUT1082 OUT1082

31	C Billie	- III san hann Fall austria hana	00716831
33	C DUAL	-JULIAN DATE FOR CHRENT DATA	00710032
34		S-THE DAILY RELEASE WINDOW START/STOP TIMES:	00710833
35	C	-18T INDEX POR STORING START/STOP TIMES,	00710834
36	C	-19379 FOR START TIMES	0UT10835
37	C	-29476 FOR STOP MES	00110037
38	C	-ZND THOSE FOR THE CONSTRAIGT	00710838
39	C	- 1 SEARTH SWADOW	00710839
40	6	- SECEVATION	00710840
42	C	- 3.30N	00710841
43	Č	- 4:NOON	00710942
44	C	- Setotal SHY WACHOROUND BRIGHTHESS	0UT16843
45	C NS	-THE NUMBER OF STATIONS USED IN THE PROGREM	OUT16845
46	C		00718846
47	C NDS(12)	- ME ARRAY CONTAINING THE STATION NUMBERS USED	00710847
48	C		00710946
49	C		OUT18849
90 51	C ON FILE 07		00710050
52	C ON FILE 07		00710851
53	Č K	-INDEX FOR CONSTRAINTS	00710952
54	C	mas, BARTH SHEDG!	00710853
55	č	meganet and of	OUT18955
56	C	-#8.SUN	0U710856
57	C	-44, ROON	00718657
58	C	-15 TOTAL EKS BACKERQUND BRIGHTNESS	OUT10958
59	C		00710859
60	C IDAY	-DAY NUMBER FOR DAVE OF CURRENT DATA	00710860
61	C IMBRYH	MANUAL FOR BERE OF GURDENT BATA	OUT10061
63	C	-MONTH FOR DATE OF CURRENT DATA	00710962
64	C MONTH	-NAME OF HONTH CORRESPONDING TO IMONTH	00718863
65	C	ausus at unutu phusestanbida in tudutu	0U710864 0U710865
66	C IYEAR	-YEAR FOR DATE OF SURRENT DATA	00718866
67	C	The second secon	04710867
68	C NRESTR(3)	-ALPHANUMERIC NAME OF SONSTRAINT	DUT10868
69	C		00710869
70	C NAME (3, 12)	-NAME OF TRACKING STATIONS USED	DUT10670
72		LANE BASIN - ELECTE USABAU BRADE (- POR - IMER	OUT10871
73	C medbastalare	) THE DAILY RELEASE WINDOW START/STOR TIMES:	00710872
74	Č	-19375 FOR STARY TAMES	0UT10873
75	C	-20416 FOR STOP TIMES	00718875
76	•	-2ND INDEX FOR THE CONSTRAINT	00716876
77	C	- 1=EARTH SMADZU	OUT10877
78	C	- 2:ELEVATION	00710976
79		• 3:8UN	00716279
81	-	- 4=MOON - 5=TOTAL SKY BACNGROUND BRIGHTNESS	00710980
82	C	- SETOTAL SKY BACKGROUND MRIENTNESS	00710981
83	<del>č</del> J	-CODE TO SURBOUTINE GUTTPE TO SIGNAL THAT STATE	00710882
84	Č	-BUING READ IS RINGT ONE FOR THAT PARTICULAR	DUT10884
85	<u> </u>	-BONSTRAINT OR IT 15 NOT	OUT10085
86	Č		00718886
87	CooseceeRESTRICTIONS-		00710887
88	C THIS SUEROUT!	NE 15 SPECIFICALLY DESIGNED FOR PRINTING THE	CUT10888
89		NERSTED BY THE CERRENT VERSION OF PROGRAM	OUT18889
90	C IBICALUDOR.	- B - B - T - T - T - T - T - T - T - T	00716890
92	CB0000000SUBPROGRAMS R	East off.	00718891
93	C GAMDAY	ENGREDO	00710892
94	C	THE PERSON OF SECTION OF STREET	00710894
95	_	NTATION CARIGEOGREGOS SES CONTROL CONT	**0UT10895
96	C		OUT10896
97	SUBROUTINE OUTS	(K)	00116897
98	COMMOSASTKATE DI	UL, NDPJO, NDTE, EPOCH	OUT16898
99	COMMON/REKD INS.	NOB(12)	00718899
100	COMMON/SCKE YNAM	E(Upity PHt(\$2) > LAMBDA(12) + ALT(12) x MOVE(12)	00110100
101	COMMOS/ACKA AMIN	DOW(679912)	00719101
103	DIMENSION NICUM	NE, IYBAR, THONTS, TOAY	00710102
	Paul Millout		00710103

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DIMENSION MONTH(129
   104
                                                                                                       00710184
                     DIMENSION DRESTR(3.5)
                                                                                                       00710105
                     DATA BILUMYAH ALLEAM STATI, SHOMS / CUT10206
DATA HONTHYSHJAN. SHPEBISAMAR, SHAMR, SHMAY, SHJUN, SHJUL, SHAUG, SWSEP, CUT10206
SHOCT, SHNOV; SHDEG/
   106
                                                                                                       00710206
   107
   108
                                                                                                       OUT10508
                     DATA $NRESTR( 1-1) -1-173) -6H
   109
                                                         EAR . 64TH SHA . 64DOW
                                                                                                       OUT10269
                     DATA INRESTRE [12] - 1 - 1 7 5 1 / 6 H
   110
                                                              -6W
                                                                         . .
                                                                                                       OUT10110
                                                              .64
   111
                     DATA INRESTRETESTOTOTOTS 16473176H
                                                                   SUN . OH
                                                                                                       00710811
   112
                     DATA ANRESTREIFAS, 10173, 76H
                                                              MOON , OH
                                                                                                       OUT10112
                     DATA (NRESTRITED) FIG193) FAH SKY - 6HBRIGHT, GUNESS
GO TO (122,3,393) FK
   113
                                                                                                       OUT10213
   114
                                                                                                       OUT10214
              C EARTH SMADON DATA IS FIRST PRINTED POR THIS DATE, PRINT JULIAN DATE, C FIND THE CURRENT DATE FROM THE GIVEN DAY NUMBER; AND WRITE OUTQUY
   115
116
                                                                                                       OUT18115
                                                                                                       OUT10116
                  PARAMETERS ON TAPE FILE 87.
   117
                                                                                                       OUT10117
                   1 WRITE (72200) DJUL CALL GALDAT
   118
                                                                                                       00710218
   119
                                                                                                       OUT10119
   120
                                                                                                       OUT10120
                     WRITE TTEIDES No IDAY, MONTHEINENTHE EVERRE (NRESTRELIK) ELGI, 3) + OUT 10221
   121
                    i NILUM. (WINBOW(L, KyJ) (L=1,4), J
   122
                                                                                                       011710122
              GO TO 2
C WRITE DATA FOR IK! CONSTRAINT ON TARE FILE 87.
   123
                                                                                                       00710123
   124
                                                                                                       OUT18124
   125
                   3 DO 108 161-NS
                                                                                                       OUT10225
                                                                                                                    19
                J =NOSCI)
186 WRITE (711801) K, IDAY, MONTHCIMONTH), SYEAR; (NRESTREL, X) L=1,3); OUT10127
   126
                                                                                                                    20
   127
   128
                    1 #NAME(LTU).L=1.3), (WINDOWEL,KFT).L=1.4), [
                                                                                                       OUT10128
               2 METURN
1080 FORMAT (FID: 2.120x)
   129
                                                                                                       00710129
                                                                                                                    35
   130
                                                                                                       00710130
                                                                                                                    36
   131
               1081 FORMAY (108,212.43,147646,6812,5,11)
                                                                                                                    36
                                                                                                       00710231
   132
                                                                                                       00710232
                                                                                                                    36
      23757 WORDS OF MEMORY OSED BY THIS COMPILATION
67906 02 09-25-72 12.244
                                        LAUNCH WINDOW GUTRUT
                                               PREFACE
     PRISERAN BREAK
                         334
     COMMON LENGTH
     V COUNT BITS
   PRIMARY SYNDER ENTRY
      OUYS
 SECONDARY SYMDEF ENTRY
      BIBEK
                     LENGTH
      BLRA1
      BLKD
                          15
      BLKE
                         124
      BLKW
                         550
      BLKQ
      SVHREF
      CALBAT
       FONV.
       FERIT
  10
      .F860.
  11
     FRED
  13
   4 FERM.
334 IS THE NEXT AVAILABLE LOCATION.
GMAP VERDSOM/ASSEMBLY DATES JMPA 030171/052511 JMRB 05
THERE WERE NO WARNING FLAGS IN THE ABOVE ASSEMBLY
60 19335 NORDS OF MEMORY WERE USED BY GHAP FOR THE ASSEMBLY
                                                                  JMRB 096171/052521
                                                                                                 JAPC 050171/058571
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1 2	CHALD DEFINITION OF DATE CHANGE BALBRYSSONS CHANGES OF SALBRYSSONS CHANGES OF SALBRY CHANGES	CALDOSS1 CALDOSS2
3	Currencestary of bocumentarien christoffedereforescence escapes for some	CALDONOS
5	C	CALDOSOS
6	Coossesson of \$2801470	CALDOSOS
6	C C C C C C C C C C C C C C C C C C C	CALDOSOS CALDOSOS
9	C	CALDOSOF
10	Coodeeeekaghineege 625	CAL D0010 CAL D0011
12	CaopeeeepyRpOSE	CALD0012
13 14	C TO FIND THE DATE OF THE CHREET DAY	CALD6813 CALD6814
15	Cooseoosemiiyiddo	CALDOR15
16 17 18	C GIVEN THE YEAR FOR WHICH THE CALBULATIONS USGIN(KYEAR), AND THE CURRENT NUMBER OF DAYS PAST JANUARY & OF THE GIVEN YEAR (2DAY), C FIRST DETERMINE IF THE GIVEN THAN 18 THE CURRENT YEAR 8%	CALDOS16 CALDOS17 CALDOS18
19 20 21	C DETERMINING IF 'IDAY' IS BETWEEN O AND 365 (366 IF 'KYEER' IS A C LEAP YEXRI, THE CURRENT YEAR IS THEN STORED (IYEAR) AND C ADMUSTMENT IS MADE TO 'IDAY' TO REFLECT THE NUMBER OF DAYS PAST	CALDOS19 CALDOS20
22 23 24	C JAGUARY O OF 1148ARY. C A TABLE OF VALUES IS GIVEN FOR THE NUMBER OF DAYS IN EACH MONTH C ADJUSTMENT HADE FOR FERGUARY OF A LEAR YEAR; THE MONTH NUMBER	CALDOS22 CALDOS24
25 26	C IS THEN FOUND BY CHECKING AND ADJUSTING TIDAY.	CALDO829
27	CoopeasolNBUYs	CALD0026 CALD0027
58		CALD0026
29 30	C KYBAR -VEAR NUMBER FOR STARTING CALCULATIONS	CALD0829 CALD0830
31 32 33	C IDAY -CHRENT NORBER OF DAYS PAST JANUARY O OF KYEAR	CALD0831 CALD0832
34 35	C=====QUTPUT= C	CALDOS34 CALDOS35
36 37	C IYEAR -YEAR FOR DATE OF SURRENT DATA	CALD0836 CALD0837
38 39	C IMONTH -MONTH FOR BATE OF CURSENT DATA	CALDO838
40 41	C IDAY -DAY NUMBER FOR DATE OF GURRENT DATA	CALD0839 CALD0841 CALD0841
42	CHASSASSASSASSASSASSASSASSASSASSASSASSASS	CALDOS42
44 45 46	C ANY YEAR EXCEPT THOSE YEARS PER WHICH . IYEAR/4. IS AN INTEGRAL C VALUE BUT 'IYEAR' IS NOT A LEAR TEAR (I.M. THE YEAR 2000),	CALDOR45 CALDOR45
47 48	C++44+>++SUBROUTINES REQUIRED- C NAME C	CALDOS47 CALDOS49 CALDOS49
90		CALDOSSO
51 52 53	SUBROUTINE CALDAY COMMON/BCKX /KMONTH, _AV ,KYEAR ,LMONTH,LDAY ,LYBAR ,KMOZ KDA.	CALDOSS CALDOSS CALDOSS
54	COMMON/BLKO / LINE; TYRAR, THONTH, SDAY	CALD0854
56	DIMENSION NDAYS(12)	CALDONSS CALDONSS
57 58	DATA MDAYSY31,28,31936581,36,31981,80,32,30481/	CALDOSS7 CALDOSS8
59	C 19 THIS A LEAP YEAR	CALDOSS CALDOSS
61	IF (MBD(IYEAR, 4), 20+0) GO TH S1	CALDOS61
62	GO YO 12	CALDOD62
63 64 65	C CHANGE THE NUMBER OF DAYS PER YEAR AND THE NUMBER OF DAYS IN FEBRUARY C FOR GORRECT LEAR YEAR VALUES,	CALDOS64 CALDOS65
66	NDAY5 (2) #29	CALDORSS
67	C CHECK FOR KYEAR TO BE THE CHRRENT YEAR.	CALDOS67
68	12 IF ( DEV, STO LAND, IDAY LY, (NUPER+E) GO TO 14	CAL DOGGS

75 C CURREST VEAR 13 PRIOR YEAR TO GEVEN THAT.	CALDSSYS
75 TVBAR 0 TVBAR 0 T	CALD0071 15
72 IBAY 518AE +3+9	CALD0072 26
73 GO YO 14 74 C CURRENT TEAR TO BEXT YEAR TO BEYON YEAR;	CALD0074
75 22 IYUAN SIVERN +1	CALD8879 18
76 IDAY GIBAY - NDPYR	CALDOS76 17
77 NBAY8123020	CALB6277 20
78 00 10 14	CALD0078 21
THE CONTENTION THE CONTEST MONTH NUMBER AND DAY OF CHERRY HOWER,	CALDOSOS 21
81 IF (IDAY ONDAYS(INDAYH))31,51018	CALDOSS 23
AS 100 IDAA PIDAS UNDAAB (BAGMAH)	CALDOSSZ 24
92 95 BEANNA	CALDOSS3 26
84 SND	CALDOSS4 S
Same nauda al manoma deed ba anie sombifficiam	•
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BLOOK LENGTY	
1 BUMB 88	
S BPMB 9	
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122 THE NEXT AVAILABLE LECATION.  SHAP VERSON/ASSEMBLY DATES JMPA 650174/052571 JMRB 056171/052571 JM  THERE MERE NO MARMING FLASS IN THE ABOVE ASSEMBLY  OF 19279 EGRDS OF MEMORY HERE USED BY SMAP FOR THES ASSEMBLY.	PC 050171/058571
STACE OF CA-52-15 TS'522 ECHRINED RIMDON INLESTORS	
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・	ad 0 a a 6 a 9 a 9 8 8 8 4 9 9 4 9
1 CTEN CONSTRED WINDOW PHYDREAUS	TTLWSDGL
2	
3 6	77140883
4 COORSONSTARY OF PCCUMENTATION CARBSONSOSOSOSOSOSOSOSOSOSOS	\$000077LH8904
5 C	97LH0003
e co-se-sendy myCraba Agusion or 85507%10	77LW0006
7 C	77599807
S COODOOCOLANGUAGEOFONTRAN IN	77LW8888
18 CB080000000000000000000000000000000000	TTLWOSED
	TTL #8811
23 じゅらゅうのうけばかり間をつ	77LW6842
13 C YO COMPOYE THE SUMBINED BAILY REGEASE HINDSH FOR THE BIE	EPERNJYY
S4 C PREJECT	771,00014
19 C	77LW8815
16 CHORFOGFMETHOD- 17 C GETEN YEZ DAILY RELBASE BINDONE AS CALGULETED FOR EACH ST	ATTLW0016
10 C AMD FOR EACH CONSTRAINT, THE RESULT OF THAS SURROUTINE IS	TO TTLW8818
4 CASTAN OF TOURS OF THE TOURS MAN AND AND THE TOURS OF T	APU ARROLLANGUL

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59	THE STABH ASH		77LW0020
52	SEGN CONSANT!	NA * AME WEAMER CEL SE SESIENT SEAR ANDRE MREDER!	AAPMees
28		e intensection of the reits escense asmoons bound	TYLHODER
38		ion ton even gonorullutariose intrusestine	YYCW0023
36		NO ENS THEN SIDES ON THE 184 ON ARRAYS ?	YTL#8824
25		AGESSOA OU SE ARE ARE SEAFERST DELINES IN AMERIC	77LH0825
70		EN BECERNINGO ARE STORES IN TOT AND TO BREATS;	TTLW6526
27			YTLHOGET
39		S ON VERS JOS THEO BOUNDUTIES TORS, THESE AND THEN	TTLWOOSS
26 (	BARKER BH ASP	E OF POR PLEFTING ABB/OR RESTING!	77143629
	esesses fundas		715H0030
32			Y7L#6832
33		-ARE REWARD By STVALONE RESS IN ARE UNGOUGH	TYLHEE33
36		ande abused & availant sobs to les undendu	TTLH0834
39 (		GEES CREENIN HOLLERS BAL BRIGGELING ATRICE AND MY	TYLHOOSS
35 7		The second secon	TTLHESSE
37		Sate Date defrese nimbon statable aluss.	TTLH6837
35		-SET INDEX PER TYCEING START/STOP TIMES;	TTLHOOSS
39		-19875 FOR START TOMES	T7140039
40		-89416 FOR STOP TIMES	*TLW0040
48		- 2ND THOSE PER THE COMEYNASET	TYLH8841
48		· 1.WARYH SWADD	TYLW8842
83		• 2:000VATION	77LW8843
44		- 3e8/N	TTLW8844
45		- damudn	TTLW8845
86		- Several SKY MACHOROUND MEJENTHESS	TTLW0046
47			TTLH8847
48	9700	"JULIAN DATE FOR CURRENT DATA	TTLW8848
49			TTLW9849
50		-NUMBER OF BAYS RABY EROCH DAYS TO DATE FOR	TTLHOUSO
51		-BYARTING GALCHESTIONS (INTEGER)	TTLW0051
52		THIRD AND ARE SAME AS CARACLE	PTLH8852
53	MDAG	ONUMBER OF BAVE BAST EROCH DATE TO BATE FOR	TTLW0093
54		-STORFING CALCULATIONS (INVESSE)	T7LW0894
55			TTLW0855
56		-INTEGER VELOW BE GASE NUMBER	11LH3856
97			TTLH0057
90	BEGNAL	-INTEGER CODE NOTING LAST GASE	TTLHESS
59		-ee, nord Cases Id Folley	77LW0059
60		-02.7498 18 246 E18AL GASE	77LH0060
61			TTLHEB61
	<b>X</b>	-EUNERHY HORSEN SP DAYS FROM FIRST DAY CALCOLATES	
			77LH0563
64			TTLW8864
	:2052v989@RABAA-		TTLW0065
			TTLW0866
	BAGE	-JULIAN DARE POU CURRENT DATA	TTLH8867
		MALE NAME AND RESIDENCE PARTY.	TAPR669
	. SYBAR	-vear for bate of guarant Dava	TTLH0069
	Vernand.	MANAGE BASE AS ALMERIUM BANG	TTLW0970
	3 Henry	-MONYH FOR DETE OF CHROMINY DATA	TTLWOOPS
		- ACC BANGE HOR BIRE AN ALIESUM SING	TTLW0672
73	IDAK	-DOA BOMBES KON BYAN OF CREEKS DYA	TTLW0973
		CARRAY OF BONESSED WINSON START TIMES FOR CORRENT	TTLW0074
	5(6)		77680075
		-DAYE	TTL W8876
	p(6)	-ARRAY OF EGHRISED WINDOW STOP TIMES FOR CORRENT	71,40877
	9107	apada of Eosalaso Siesos Sias Atuas tou Cousta	
		40078	TTLW8879
	1679	BARRAY OF SOMESSED WINDOW SYANY YIMES FOR CORRENT	771 2000
the state of the s	2.41	-DETE FOR ELC ISRUY CASES	TTLHOOSE
		mental Loui BPA Suntal Autol	MATERIAL SPRINGS OF THE PARTY NAMED IN COLUMN 2 IN COL
	Y(6)	-ARREV OF BOHR SED WINDOW STOP TIMES FOR SUBRENT	TYLHOES
	1,0)	"Pass and sty, they're every	TTL HORSE
	<u>,                                      </u>	-Days for ALL PERLY SASS	TTLHOOOD
	bobsessubskicziense		TTLHOOS
		NETRAINTS AN EUNEENTLY COMPUTED IN THE SECREMON	TTLHOODS
		MAN CAN BE EGGAIREDS	TTLHOSOP
		UN OF THELVE TRANSME STATIONS CAN BE COMMENSO!	77LW0890
		SIN COMBINED ENTERVALS CAN US COMPUTED FOR A GIVEN	ITTLH8891
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C TERS
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TYLWORLS
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                    C CLEAR THE A. BIES ARRAVE BEFORE STARTING SUPROUVESE CALCULATIONS
                         COMAN THE RESERVE

DO 300 M4546

BO 400 L6142

ASMAL) 88420

400 SEMAL) 98420

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300 DEMI 6078
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C FIND THE GONGINED WINDOWS SEPARATELY EQS SAGH STATION
DO 146 GLOY, US
L $405 (CL)
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77LW0120
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121
                     C CHECK THE SURVE FIRST INTERVAL BITH THE OTHER INTERVALS FOR STATION(L) TILMOS22
C THEN THE SURVE SECOND ENTERVAL?
TILMOS23
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                                   DO 288 13 8 1,302
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                     C CHECK THE RESNYS FIRST ENTERVAL THEN ITS SECOND INTERVAL WITH THE
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                     C GYHERS MAR STATIONALI.

DO 126 14 6 1,522

C CHECK THO EARTH SHADON INTERVALS SHLT IF THEY EXTOT FOR THIS DAY?
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IF (32,80,%) G0 YO 615

C CWSCK YMS FIRSK, THEN SESOND THEN THISD SNYESVAL FOR YMS TOTAL SKY

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                    TORPES SAMASIC TEMPLE ; INTRODUCTIONS;

YEMP(2) SAMASIC TEMPLE ; INTRODUCTIONS;

YEMP(2) SAMASIC TEMPLE ; INTRODUCTIONS;

YEMP(2) SAMINIC TEMPLE ; INTRODUCTIONS;

YEMP(2) SAMINIC TEMPLE ; INTRODUCTIONS;

YEMPLE ; SAMINIC TEMPLE ; INTRODUCTIONS;

TORRES SAMINIC TEMPLE ; INTRODUCTIONS;

137
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                     C SYCRE INTERVAL INTERSECTIONS IN A ANN B ARRAYS AND CHECK NOR ABOVED
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                     C SMASHAF LOUS SALION (P) SINCESSES H BA T)

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REMOPPE SALION (P) SINCESSES H BA T)
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 169
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                     130 CONTINUE

C ASC POSSIBLE CHMBINATIONS OF INTERVALE FOR STATION(L) MAVE SEED

C BEECHED, REINITIALIZE M TO 4 AND CHEEK SENT STATION,

N 65
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77140857
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THIPTES BASIS (1)
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                                     IF (MB NO. F T 05 TO 512
CEN) STEMB(1)
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 163
 165
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                                                   8 平理科學(2)
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166 N 5No2	TTLH0366 57
167 60 70 918	TTLH0266 57 TTLH0267 59
108 541 DO 520 J2 41/6 109 17 (ALJZ /Z 7.89:24/0) 90 78 518	TTLH0168 59
170 YEMP(8, 6AHAR1/YEMP(1, 198(12, 2, 1)	77LW0369 60 77LW0370 65
171 TEMPES GAMINITTEMPES (66 LZ 2 1)	TTLH0271 64
172 IF (MB.NB.3 ) GO TO 526 173 IF (YERP(3 ) 4 GB TEMP(4) ) GO TO 586	11LW0672 65 17LW0673 65
174 Caus overecs s	TTLW0874 71
175 PIN) CYEMR(3)	77LW8875 72
176 N 2N09 177 00 TO 930	77 W0176 73 77 W0177 74
178 521 00 588 J3 61,6	TTLW0878 75
179 IF (ALJ) >5 1,60.20(0) 00 TO 520	77LW0879 76
100 TEMB(5) @AMASICTEMP(3 ) 98 (JS 03 ) } 101 TEMP(0: SANIBICTEMP(4 ) 98 (JS 03 ) }	77LW8880 79 77LW0381 80
102 IF (NE'NE'S 7 GO TO 981	77LW8882 81
143 IF (YERP(5 )=GE, TEMP(6)) 60 70 986	TTLWess 84
184 CAND STUMBER D 185 DAND STUMBER D	TYLW0384 87
186 N 6959	PTLW886 89
187 60 70 530 188 582 BO 846 Ja 8276	77540187 90 77540188 91
189 (44)4 24 3.80.2440) 80 78 838	17LW0489 92
( b. ML) Act CEMMST) LEAMAS (TOMMST)	TTLM8890 98
171 THM0(0) GANIB1(TEMP(6 )98(JH 64 )} 192 IF (NB.NB.H ) GO TO SAS	77LW0491 96 77LW0492 97
193 IF (TEMP(7 ) GE TEMP(8) BO TO SEE	77LH0893 600
174 CAN) STEME() )	TTLW8894 883
196 N 6N82	TTLW6195 804
107 60 76 546	TTLH0897 806
198 568 00 558 JB 4176 199 IF (ALJS ,5 1,80,2040) 80 TB 548	77LH0198 807
200 TEMP(T) &AMARI(TEMPLT 10A(JE = ))	TTLWGEGI 812
202   TEMPTEDIGARYEST TEMPTE   FET   5   5   5   5   5   5   5   5   5	TTLW8802 818
203 IF (YEMP(9), GE, YEMR(10), 950 78 989	77LW0203 \$16
205 DIN) STUME(9)	77Lu6204 819
206 N 9N91	TTLW0803 \$20 TTLW0206 \$21
207 60 10 530	TTLHORO7 \$22
208 552 DG 566 J6 4196 209 IF (ALJO > 5 1.00, 2440) 60 78 550	77LW0200 823
(	YTLW0810 \$27
252 TF (HB) (B2) GB ( B) GB ( B) TF (HB) TF (H	TTLW0811 126 TTLW0812 129
213 IK (TEMP(12))GESTEND(12))GO TO SPO	TTLW0812 829
214 G(N) 578HR(\$1)	77LW0214 839
215 DIN STRUCTS) 216 N SHES	TTLW0215 637
247 60 70 560	TTLW9817 838
216 568 DO STO JY 0176 287 15 (AUJ7 12 1,88,2000) 80 70 868	77LH0818 839 77LH0819 840
226 TAMP(48) CAMANICTAMP(4100) 2 A7 15	TTLW0820 843
221 TAMP (44) SAMTEL (TEMP 110) PB (J2 .7 ) } 222 IF (NE; NE; Y GO TO 572	77LW8221 444 77LW8222 449
283 IF (TERP(18);GE, TEMP(10):GO TO 878	77140225 840
282 [F (788P(18):GE,78MR(14)960 78 878 224 GAU) 478MR(13)	97LW0224 851
225 DEN SYUMBERT	77LW825 452
227 60 10 578	97LW0527 254
220 372 86 646 J6 6476 65 78 578	77LW0226 455
230 TBMP4936AMAE1924MBF36AMAE189AGA 66	77LW0229 456 77LW0230 499
(	TTLW0231 460
282 1F (ME'NE'S ) GO TO HEE 288 1F (TERFESS) GO TEMP (10) ) GO TE 500	77LW8838 464 77LW8833 664
234 GN) STEMP(19)	77LW0234 467
235 D&U) & YEMR(16) 236 N aN&S	TTLMS235 A68
287 80 90 988	TTLW0237 670
NAS NA ROS 10 YOA	TTLM8238 171

230 1F	(4119 v9 1.88.26e0) 80 78 589	TTLHORSP ST
Sal 1841	PC #FIRST SHEET STANFIELD OF 13	TTLWARAD AT
365 18	(M8. M8.7 ) 40 YO 592	TYLHORAR ST
203 IF	(TBMP(12))GEVTEMM(18) 980 YE BTD	TYLWSE43 B
289 DEN		TTLWER49 3
246 N	6103	TTLW8245 86
247 69	Y8 5V8	TYLWORAT BE
348 348 90 (	20 1809519	97LH0848 36
249 JP (	(NEJSD: 18, 20, 00, 00 78 200	77LW0249 88
		11 HOEST 21
525	(NU. NU. KO) 00 70 602	77LH0252 6
293 17	(TEMP(17) 100 TEMP(20) TOO TE 689	TYLW0253 39
284 CAN		TTLH8854 \$1
295 N	9 M + 2 M + 2 M + 2 M + 3 M + 4 M +	77LW0255 20
	76 608	TYLHOEST E
329 96£ DO (	680 7816176	TTLHORSE E
594 IA	(4)35,11,00,24,6, 60 70 000	TTLWS259 20
260 YEM	P(81)SARAKS(YEMPKI); PA(JES-14))	TTLHBEGO B
	P(W2)0ANYW1(YWMP120)9B(JE2018)} (NW:NW:K1? GO TO 611	TTLW8261 E
	(YBNP(ZE) GE, YEHP(ZE) 400 YB 626	TTLW9862 80
264 E (N		TTLW0264 25
5ea Dem.	) 6YBME(22)	TTLW0265 8:
399 M	6468	TTLW0866 8
	4g 92a	TTLW8267 25
	626 J125176 (41J12-127.20:2400) 60 75 518	TTLW0268 8:
	F(BB)5AHAB1(YEMP(81)9A(JB2.12))	TTLH8270 8
271 平田川	{	TTLWORFS E
	(YERP(25);GE, YEMR(24))GO YO 490	TTLW6272 85
273 C(N		TTLW6273 8
274 D\$N 275 N	) \$78MR(24) 4N51	TTLW0274 8:
276 628 CON		TTLW0275 2
	7 1 8 9 8	TTLW0277 8
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279 598 CON		TTLW8279 8:
280 580 CON 281 590 CON		TTLWORSO 8:
282 268 000		TTLHORSE B
283 558 600		TTLHSESS B
284 548 CON	YINDO	TTLW8884 B
285 580 CON		TYLHEESS &
286 528 CON		TTLHOZOG B
	TEMPORARY FILES OF THES 23 THE FORST DAY?	TTLWege7 81
287 285 17	11.NE.BDPJ0) 60 70 819	TTLW6889 8
540 韓島前	IND SE	TTLW0290 8
291 RES	IND 18	TTLW0291 8
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296 #57		TTLH8896 8
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THE THE NEXT AVAIGABLE LOCATIONS THERESON/ASSEMBLY BASES JAPA 050171/052921 JARO 056171/052921 JAPC 05	84 94 46
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101	C PRINT OUT DATA FOR COMPINED DAILY RELEASE TIMES ONLY IF IRRES &	00720101	-
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103	WM 57 M ( \$2300 & )	00720603	27
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43			5. TOTAL SKY BARKARQUAD BETCHTMESS	DUTTOR
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46	C			OUTTOB
47		MAR	-MONTH FOR DATE OF CURRENT DATE	OUTTOR
48	C			OUTTER
49	C IVE	AR	-YEAR FOR BARE OF GURRENT DETA	OUTTOR
50	C NEE	DEEL ST	ALBUMENTA NEWS AS SAUCESTALLED	OUTTOB
51 52	C NRG	STR(S)	MALPHANUMERS NAME OF CONSTRAINT	OUTTOR
53	the state of the s	E/5-205	-NAME AT TRACELER SALTIANG HOSE	CUTTOS
54	C NAM	E(5, 32)	-NAME OF TRACKING STATIONS USED	OUTTOR
55	G MIN	DOW(8)	-THE DATLY RELEASE WINDOW START/STOP TIMES.	DUTTOR
56	- č "· u	24.741	-197 INDEX FOR STORING STARY/STOP TIMES.	OUTTER
57	- C		-1.379 FOR START TIMES	OUTTOR
98	Č		-29476 FOR STOP TIMES	OUTTER
39	C			DUTTOR
60	ē			OUTTER
		PUT-		OUTTOR
62	C 08	FILE DAOF	PRINTER	BOTTUD
63	C			OUTTOO
64	C IDA	Y	-DAY NUMBER GOR BAVE OF BUREENT DATA	OUTTES
65	C			DUTTER
66	C 148	HTH	-MONTH FOR BATE OF CURRENT DATA	DUTTES
67	C			CUTTOR
58	C 14	AH	-VEAR POR DATE OF GURRENY DAYA	CUTTER
69	C			OUTTER

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79
                                           HRESTRUS)
                                                                            -ALPHANUMENTS NAME OF SONSTRAINT
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                      C
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                                           村本村を (3)
                                                                            CARD SHOSTAFE SEPERS TO THE SHEN
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  76
                                                                            STATESRAL HOUR VALUE OF STARTISTOR TAMES
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  75
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  76
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                                                                            -INTERAL MINUTE VALUE OF STARTASTOR TIMES
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  77
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                     CS+6+++0+0+RESTRICTIONS+

C THE NUMBER OF TIME INTERSALS SER COMETRAINT IS FIXED BY THE OUTTOSTS

C RESULTED OF THE PROSECU.

C SUBROUTINE OUTPUTS THE RESIDENCE WITH NO GREATER ACCURACY THANDUTS OF
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                                    SUBROUTINE OUTTRE (5102)
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  92
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                                                           3GE(2)
                                   DAVA SGN / 18-93H /
  93
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  94
                      C READ A RESORD OF DATA
                                                                                                                                                                                                  OUTTO894
                     63 MEAD $7,2000 DJULOK. IDAY, IMONTHUSYEAR, NRESTE, NAME THINDOW, 2
C IF DJULOB. THEN RECORD SONTAINS DATA FOR PRINTING
IF (DJUL) 21,12-11
C CHECK TO BEE IF THE JULIAN DATA IS WITHOUT THE TRUE PERSOD REQUESTED
C POR WRINTING.
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  94
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101
                             $$ 1F (PHULGEE, 999:0; 60 VO 61
                                   IF (PHUNG-L),

IF (BHUL-GE-BEGIN) IPLAS =1

IF (BHUL-GE-FINIS) RETURN

GO TO 13

IF (IPLAS-ED-O) GO TO 15

IF (IPLAS-ED-O) GO TO 15

VEE TIMES FROM HOURS AND DECIMAL OF HOURS TO HOURS AND MINUTES

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107
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INOL) SWINDOW(L)

IN (INVL), NE 10) DO TO TO

IF (WINDOW(L), LT. 0.) PRYSSNEL) #$GN$1)

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186 JROL'S EARSTHINDON(L) STENP) 4 50,
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92 HRITE 161202) IDATOIMENTH, TYBERS NEBSTRONAMBO FRESCH(L), IWEL),
122
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133
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184
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12%
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C PRINT MODE VIMES IF KAS
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145 60 VO 28 146 21 F (1, N\$11) 60 TO 22	DUTT0549 94
107 WETTE (01100)	OUTT0846 95
185 HRTTE (\$2508) MRESTREBAME, PRETSEN(E) FU(L) ANK(L), Ca444)	OUTT8348 280
220 ON AN 23	00710249 506 00710250 867
191 SE METTE TOTSOOD MANED (REVECHEL) ( SUCL) ( LUSL) ( LUSL) ( LUSL)	00779891 808
192	OUTT0852 814
194 C PRINT TOTAL BKY BACKGROWNS MRIGHTNESS CONSTRAINT TIMES	DUTTOSSA
185 5 IF (LERBILT: 80) 60 90 50 156 URITE (621608)	0UTT0855 816 0UTT0856 419
197 HRTTE TETTE TETTE TO THE TETTE TO THE TETTE TO THE TO THE TETTE TO THE TO T	, OUTTOES7 821
788 1 JM(F), G98-6)	OUTTOESS
160 60 40 13	OUTT050 428
SEL SELW (S.ME.L) BO TO SE	DUTT8161 829
162 MRITE (622002) MRESTREBANE, PROTESTION (C) . ISCL ) CHW(L7, L=2+6)	0UTT8242 232 0UTT8243 234
164 CAME SCANA 2 2	DUTT8864 640
165 G0 TO E3 166 \$2 WRITE (62800) NAME (PRYSENEL) (1461) (4616)	0u77865 841 0u77866 842
167 LONG SLING \$ 1	00710367 248
169 60 TO 13 169 61 RETURN	0UTT8368 349 0UTT8369 850
170 2060 FORMATISHESONETENSE HINDON DAILY THE INTERVALS PE	R CONOUTTOETO 851
171 1STRAIGT FER STATIONSONSON/ANGAMERTE 208, 10469NSTRAINT, 94 T	OUTTes71
172 2 THSTATION, \$2, B(SHEPARTERSPOPERS)	0UTT0872 0UTT0873
174 2081 FORMAT (\$X.12.1X.A3022314. SAS. \$218.A1.13.20/F12.4X))	OUTT8274 351
175 2002 FORMAY (2X.12.1%.A3922784. \$A\$. P\$18.A2518.80/.[2,4x)) 176 2003 FORMAY (END)	0UTT0275 251 0UTT0276 251
177 2084 FORMAY (148,646-4(18,41993,582,18-48))	OUTT0877 851
178 4085 FORMAY (322; 8A6,4(12, A4923; 244; 86,48)) 179 2086 FORMAY (226; 14, A3622344, 8A6, 9618; A1613, 26/912, 4x))	0UTT0178 451 0UTT0879 851
160	00778580 351
191 2009 FORMAY (322, 340.6 (12.61995, 202, 58.41) 192 2000 FORMAY (F60, 2, 232, 83, 149646, 6812 (5, 61)	OUTT0881 191 OUTT0882 151
193 ENO	00776483 851
A STATE OF THE PARTY OF THE PAR	00110800 857
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24FE9 WORDS OF MEMORY OSED BY THIS COMPTLATION	00110800 872
25FE9 WORDS OF MEMORY OSED BY THIS COMPTLATION	50116850 872
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25FE9 WORDS OF MEMORY OSED BY THIS COMPTLATION	
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2\$F\$9 W\$R\$E BF M\$WORY OS&D BY TWIS COMP\$LATION  67906 OR O9-25-72 12,287 FILE 07 QUTPO7  PREFAGE  PROSEAW BREAK 1299 COMMON LENGTH 8  V USWNY BITS S  PRIKASU SYNDEP SWYNN  OUTTPE	
28 TET WENDE OF MEMORY USED BY THIS COMPILATION  67900 DE 09-25-72 12,287 FILE 07 QUIPOT  PRINT SOUTIES FOR RILE 67 DATA9-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	
SECONDESS SAMDEL EMANA	
2\$F\$9 W\$R\$E BF M\$WORY OS&D BY TWIS COMP\$LATION  67906 OR O9-25-72 12,287 FILE 07 QUTPO7  PREFAGE  PROSEAW BREAK 1299 COMMON LENGTH 8  V USWNY BITS S  PRIKASU SYNDEP SWYNN  OUTTPE	
SECONDESS SAMDEL EMANA	
23F29 WARDS OF MANORY OSED BY TWIS COMPTLATION  67906 OE 09-25-72 12,287 FILE 07 OUTPO?  PREFASE  PROBAM BREAK 1295 COMMON LENGTH 6 Y USBANT BITS 5  PRIMARY SYNDEF ENTRY  DUTTPE 6 3ECONDAGY SYNDEF ENTRY  BLOCK LENGTH  1 BLOCK LENGTH	
STREP WERDE OF MEMORY OSED BY THIS COMPTLATION  67906 OR 09-25-72 12,287 FILE OF GUTPOF  PREFAGE  PROBRAM EREAK 1299  COMMON LENGTH 6  Y USHNY BITS 5  PRIMASE SYNDEF ENTRY  OUTTPE 6  SECONDERS SYNDEF ENTRY	
SARSA MENDE OF MEMORA CIND BY THIS COMPTIATION  CAROL OF CA-52-15 78'88A LIFE CA OMAGO SOCOOSOGO  BEELVEE  BUREN FARE  COMMON FRANK 7532  COMMON FRANK 7532  DATABE  DOLLAR SAMORA EMARA  ONLAR SAMORA EMARA  THEN SAMORA EMARA  SAMORA FARENCE  SAMORA SAMORA EMARA  SAMORA SAMORA SAMORA EMARA  SAMORA SAMORA SAMORA EMARA  SAMORA	
SARSA MENDE OF MEMORA CIND BY THIS COMPTIATION  CYPGO DE 09-25-72 12,887 FILE 07 QUYPOT  PRINT SOUTIES FOR RILE 67 DATAGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOG	
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3	CKARAAASKTART OF BOCUMENTATION	CARRES	TTLT0803 TTLT0804
5	C		77LT0005
0	CB-60-66NEGA WALLOPS VERSION OF		TTLT8806
7	E		TTL T0807
8	CO-BO-BOLANGUAGE-FORTRAN IV		PTLTOBOS
9	CHARRANAUTRE OF ADD		77170009
11	Caebaeaaanushine-GE e522		77170010
52	Ceesseespurposes		77676011 77676012
13	C TO PRINT THE YOTAL COMB	INED WINDOW DATA FOR THE DATES REQUESTED	TTLTBECS
94	•	이 선생님들이 가는 이번 이번에 가면 이 사람들이 되는 사람들이 되는 것이 되었다. 그는 그는 그는 그를 모르는 것이 없었다면 하나 있다.	TTLT0814
15	Coepaceal (ANODe		77670015
26		A STORED ON FILE OF IS READ BY THIS	PTLT0016
17	C SURROUTINE, IT IS CONVER	THE TO MOURS AND MINUTES MERORE PRINTING	TTLT8617
18	C A SHACK IS MADE TO SEE	IF THE JULIAN DATE OF THE CURRENT RECORD	
19	C BAVA KITHIN THE DATES REG	UESTED FOR PRINTIDG ONLY THE BLOCK OF	TTLTESIS
21		AREA THE SOLIT CORE RESE THE SOLIVE	
22			TTL T0022
23	- C		77170623
24	Caessoosinguts		TTLT0824
25	C OM FILE 09		71116925
50			PTLT8826
27	C EPECH -JULIAN D	THE ON BURNES O BE AFRE DUTY BEGINS ON	
59	C eFSLE 89		TTLT0020
30			TTL 70829 TTL 70830
31	C - SECIAN C.		17170031
32	C 1887 -DEA MANG		TTLT0832
#3	C		TTLT0033
34			TTL70834
35	C		11110035
36 87	C SYEAR -YEAR POR	BATE OF BURRENT DETA	71170836
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40		ATE TO STOP RRINTING AND/OR PLOTTING	TTLT0840
42	Ū		TTLT0041
42	C F166 oF4M5 800		TTLT0842
43	C -HEADING		TTLT0843
44	C	MANAGEMENT COMMENT AND ADDRESS OF THE PARTY	7TL70844
45	C G(6) OARREY OF	MONBERD WINDOW START TIMES FOR CORRENT	more discussed with a
47	C		77LT8846 77LT8847
48		BONDINGD WINDOW STOP TIMES FOR CORRENT	TTLTBBAR
49	CDATE		TTLT8849
96	C		TTL18850
91	Ğ		TTLT0051
25	Caesaecaedhábháe		TTLT0092
93	C FILE 86+PRINTER		71170893
94	C S.IMP SMITH	AND FIRE CHARGES NAVA	TTL70854
96	C SINC OUNTING D	ALE FOR CURRENT DAYA	TTLT0855 TTLT0854
97		PE KOR DAVE OF SURBENT DATA	TTLT0037
56	C C CONTROL OF THE CO		TTLTOSSO
89			TTLT0859

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60
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 68
                                                                                                              -YEAR FOR BAZE OF BURNENT DEVA
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77L70062
                                                                                                              - ENTERRAL SALUE OF STARY TOHR HOURS
  63
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  64
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86
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90
                                                   SPENDELINE LAFANG (FINE)
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TTLT0881
                              DIMENSION E(6) F D(6)
DIMENSION IC(6) JO(6) ID($) JO(6), SONC(6) SOND(6), SON(2)
C READ BROOW DATE
81
52
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43
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77670884
84
  85
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                              READ 6920621 EPOCH

C READ 6 BAY OF DATA

28 READ 5920801 DJUL: 10472 MONTH, 17848; (CSI), 2413, 101, 6)

IF (BULL-E3, 7776) GO TO 12

C IF DATE 18 USTRIB THAT RERIOD REQUESTED THEM PRIST, IF NOT THEN READ
   84
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   87
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771.70889
771.76890
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 70
                                      IF (BULLET, BEGIN) 40 70 11
IF (BULLET, FINIS) 60 70 12
IF (LINELT, 10) 60 70 22
   91
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24
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                              C CHANGE TIME VALUES TO HOURS AND MINUTES
ES DO 100 105 105 6

IEST 6011 1 100 00 70 32

IF (1011 LT. 10) 00 70 32

IF (2011 LT. 10) 30NB(1) 23GN(5)

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 97
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180
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 101
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 102
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                                         ## 10 02
## 36HC(4) 6S6H(2)
## 76HP 4[C(1)
JESS 5(E(1)-7EHP)460?
 103
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 104
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105
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                                                    IP (ID: 1) (ID
104
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 188
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140	70240 863 70240 863 70242 309 70243 110 70244 211 70245 70246 817 70247 218 70248 119
142	70541 70542 309 70543 510 70544 311 70545 70546 617 70547 218 70549 319
143	70343 110 70344 111 70345 70346 117 70247 110 70348 70549 119
104 87 WRITE \$6.2507) 10A491M6MTH; 278A8836ANG(2), 18827, UC(1)45GND&1), TTL  105 1 10(1).JDV1).56E.61  106 15NE 66INE 6 1  107 00 TO 11  108 0 NB HORE 86TA REQUESTED OR FILE 89 ENSETH-RETURN  17L  150 200 FORMAY (2HE)AOX-S1MS-0000TOTAL DATLY RELEASE WINDOW TIME INTERVALSOTTLY  151 150 200 FORMAY (2HE)AOX-S1MS-0000TOTAL DATLY RELEASE WINDOW TIME INTERVALSOTTLY  152 2/2)  153 2061 FORMAY (2X612,1X.AS@2X514,38661M6W-00000 RELEASE WINDOW FOR TWIS DATTLY	70844 811 70845 70846 817 70847 818 70848 70849 819
146 LINE OLINE O 1 147 GO TO 11 148 C NO HORE DOTA REQUESTED OR FILE DO ENDETORNUM 149 AR RETURN 150 200 FORMAY (EME) AOX SIMBO SO FORE DAILY RELEASE WINDOW TIME INTERVALSO TIL 152 2/2) 153 200 FORMAY (EME) AOX SIMBO SO FORE DAILY RELEASE WINDOW TIME INTERVALSO TIL 153 200 FORMAY (EME) AND ATE ON A VENERAL DAILY RELEASE WINDOW FOR THIS DATT.	70247 218 70247 218 70148 70149 219
198   C NB HORE BATA REQUESTED OR FILE BY SHORTHAN	0148 78149 119
150 2000 FORMAY (EMELADNOS 1 MEGOGO FORME) DATES RELEASE RENDOW TIME INTERVALSOFIE  152 1000 FORMAY (EMELADNOS 1 MEGOGO FORME) DATES RELEASE RENDOW FOR THE STEP THE SECOND FOR THE SECOND	78449 219
192 2/2)  193 2061 FORMAY (2X,12,1X,A3,2X114,38,41,404,000) RELEASE WINDOW FOR THIS DATT.	18950 820
153 2061 FORMAY (EX. 12.1X. AND EXE 14. 38 (41 MONO OCHO RELEASE WENDOW FOR THIS DATT.	10151
	10452
	10254
	70155 &20 70156 &20
197 2084 FORMAY (EX.12,1H,A362X164, 8(8X888,32118/,1231X))	70157 120 70158 120
154 2000 FURNAY (2x, 12, 1x, A3, 2x, 14, 10 (8x, 12, 12, 14), 12, 12)) TTL	10159 420
	T0160 820 T0161 820
102 2081 FORMAY (P10,2)	10962 920
28787 HERDS OF MEMORY USED BY THIS SOMPSLATION	10343 320
PROBRAM STEE  PROBRAM STEE  COMMON LENGTH 6	6 6 6 6 6 6 6
Y GRANT BITS	
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3 5	Carassea a a a a a a a a a a a a a a a a a	PLTR0003
5	CHARRAGE VARY OR BOCUMENTATION CARRESCONAGE COOPERSON COOPERSON COOPERSON CARRESCON COOPERSON CARRESCON COOPERSON CARRESCON COOPERSON CARRESCON COOPERSON CARRESCON COOPERSON CARRESCON CARRESCON COOPERSON CARRESCON CA	PL TROUGH
6	Chesessands Maclibes Assion of Statistic	PLTROOPS PLTROOPS
7 8	C COMPANY AMAILESE PARRIAN A.	PLTROBO7
9	Coostoos AMGUEGE-FORTRAN IV	PLTROGOS PLTROGOS
20	CRORDOG HARMINE DE 652	PCTRO010
11	C C	PLTROB11
23	Chonesosabhiabase	PLTR0013
19	C YO GRAPH THE COMMUTED RELIGIOUS TIMES FOR THE NASASMA! C BASTUR TON CLOUD PROJECT FOR A GRAPH VEAU OR PORTION OF A YEAR	PLTROB14
16	C Buding for opode asolite; and disast that an educate at a law	PLTR0815
\$7	Cyesesecheville	PLTROB17
10	C THIS SUBROUTING WASS EXISTED SAUCOMR LINEARY ROUTINES TO PLOT THE RELEASE TIMES SAUCOMED WAS THE SIC PROJECT THROUGH THIS	PLTR0818
20	C PROGRAM DETO A GRID AS SET UM IN SUBSTOUTIBE CALDING THE ENRUT	PLTRee20
51	C THE VALUE OF EASY GENSTRESHY IN STANDING USED AND	PLYR0021 PLTR0022
23	C RELEASE TIMES PLOTTED ARE THOSE DAILS TIMES RECORDED ON	PLTR0823
24	C FEEE OF BY THIS PROGRAM,	PLTR8824
25	CoodbooofReer ICTIONS =	PL TR0825
27	C YHTS SUERSUYINE WILL PLOT DATE OBLY KOR A GIVEN CALENDER WEAR	PLTROQ27
28	C DR PORTTOR OF TTEPLOTTING OF TWO OR BORE BALENDAR SEARS C REGUTRES THAT THE PROGRAM DE REINTPLATED FOR PLOTTING ERCH	PL TR0020 PL TR0029
30	C CALENDAR YEAR THES RESTRECTION IN DUE TO THE GRID RLOT	PLTR0030
21	C SEMERATED THROUGH SHEROLYTHE EXLEND. A CHARM IS HADE TO ENSURE	PLYROB31
33	C THE NUMBER OF DAYS PAST JANUARY & OF THE GIVEN CALENDAR YEAR IS	PLTROB32
34	C SUBCRESTVE CALENDAR WEARS GAN HE MADE FROM CHR FILE OF TARE?	PLTR8834
35	THE RESTRICTION AND STREET THE TO SLOT SUCCESSIVE	PL TROUSS
36 37	C GALENDAR YEARS ON THE SAME GRED BILL GIVE AN ERROREOUS RLOT. C (8.6 ETERY JANUARY E OF ANY CALENDAR YEAR WILL BE PLOTTED AT	PLTROS36 PLTROS37
38	C THE DECINATION OF THE GRIDS	PLTROSSS
40	C C Second S I NF () Ye	PLTR0839
-82	C	PLTROS41
48	C 1.FOR PLOT LABELLING ONLS-	PLTR8542
44	C KYR -YEAR BEING RLOTTED AND/OR RRINTED	PLTR6843
45	C	PLTR0045
46	C PHIPDE -GEODEVIC LATITUDE OF GELEASE POINT(SEG)	PLTROB45 PLTROB47
48	C LAMPDS -LONGTYUDE OF RELEASE ROINY (DES)	PLTR0848
49	C	PLTR8849
50 51	C HEEGHT SUBFACE OF RELEASE PAINT ANOVE EARTH SUBFACE OF THE CONTROL OF THE CONTR	PLTRe850 PLTRe851
52	C	PLTR0852
53	C RESTRICE MENIMUM ELEVATION LOOK ANGLE FROM EACH STATION TO THE RELEASE ROOMY ADEC!	PLTR0053
55	C	PLTR0055
56	C RESTRIS; "MAXINUM SON BEEVATION LOUR ANGLE FROM EACH	PLTRee56
57 58	C -TRAGRING STATION ADEC	PLTROSS7
59	C RESTRIAS MEXIMUM HEON ELEVATION LOOK ANGLE FROM ERCH	PLTR0858 PLTR0859
60	C - TRAGMING STATION ADEC	PLTR8860
61	C RESTRISS -MAXIMUM TRYAL SKY BACKGROUND BRIGHTNESS OF THE	PLTROS61 PLTROS62
63	C	MPLTRAM63
64	C - PRAYUBIGHS?	PLTRe864
66	C RESTRICT -BONSTANT LONGSTODSNAL DRIFT RATE OF THE GLOUD	PLTROS65 PLTROS66
67	C -AFTER RELEASE TELEVIVE TO YME VRACHING STAVIONS	PLTRega7
68	C - (NH/SBC)	PLTR8868
70	C RESTRITE -MENIMUM TRACKING PERSON REQUIRED (HOS)	PLTR8869
71	C	PLTR0071
72 73	C RESTRICS ONE-WALF SP CLOSS GROSTM SETS AFTER RELEASS C RELETY C THE EARTH (KM/SSS)	PLTR8872
74	C	PLYRO273 PLYROS74
75	C NAME (3, 12) -NAME OF TRACKING STATIONS USED	PLTRATS

76	C		0	
	C ISASE	-TASE NUMBER	PLTR0876 PLTR0877	
	<u> </u>		PLTR0878	
79 80	C 2.USED FOR DA	PA PLOTVING-	PLTR0879	
	C		PLYR0081	
	C NS	THE NUMBER OF STATIONS USED IN "YE RROGREM	PLTR0882 PLTR0883	
84	C (\$\$)	-AN ARRAY CONTAINING THE STATION NUMBERS USED	PLTRe884 PLTRe885	
86 87	C EPOCH C	THE OF JAMUARY 9 OF YEAR DATA BERIOS ON	PLTRe886 PLTRe887	
89	C BIRE	-JULIAN DATE FOR CURRENT DATA	PLTR0888	
91	C 9561N	-JULIAN DATE TO BEGIN RRINTING AND/OR PLOTTING	PLTR0890 PLTR0891	
93	C LIDIR	-JULIAN DATE TO STOP RRINTING AND/OR PLOTTING	PLTR8893	
96	C	-ARRAY OF ROMBINED WINDOW STARY TIMES FOR CORREN	PLTR0894 TPLTR0895 PLTR0896	
98	C D(6) C C	-ARRAY OF GOMBINED WINDOW STUP TIMES FOR CORREN	PLTR0897 TPLTR0898 PLTR0899	
101	C Caaaaaaaaaquqayqa	OR REOT ARE STORED ON TAPE (16) 51 AT 556 SP1	PLTROSOD PLTROSOZ PLTROSOZ PLTROSOS	
104	C X	-POSITION OF PLOT MEN ON X-AXIS REPRESENTING THE	PLTROSOS	
107	C C C Y	-DATE BEING RLOTTED -POSITION OF PLOT PEN ON YOAKIS REPRESENTING THE -START TIME FOR DATE BEING PLOTTED		
110	G M	-POSITION OF PLOT MEN BN Y-AXIS REPRESENTING THE		
113	C	-STOR TIME FOR DATE SEING PLOTIED	PLTR0212 PLTR0213	
115	C MAR ÉCALGO	MP BERARY ROOFINE)	PLTRes14	
116	C PLET CALCO		PLTR0216 PLTR0217	
118	C SYMBOL ECALCOR C BAYES GMAP AS:	MP LIBRARY BOUTINE)	PLTRO818	
119	C CALDNA	senet 4	PLTR019	
151	Charrasarino of Marians	NYAVIOR CARBSVAGGENEGOS ON OFFICE OFFICE OFFICE OFFI	PLTR0120 PLTR0121 PLTR0122	
			PLYR0123	
125 126	COMMONTALKY SKAO		PLTRO224	
127	COMMON/ACKX5/RES	IN, FINTS	PLTROS27 PLTROS28	
130	COPHON/NIKE /RES	TR(8)	PLYR0029	
133	COMMOSSERS MAN	# (8912)9 PH2(42) & LAMBD&(12) # ALT(12) # HOVE(12)	PLTR0530 PLTR0531	
132	Damenelon E(4) A	SE, SFINAL	PLTROS32 PLTROS33	
134	REAL BAMPOS		PLTR0434	
720	C 284 ON NEWS SELL		PLTR0335 PLTR0536	
187	C LABEL VOEXIC		PLYRESST	
724	Park Andres (0'Se	, ; \$ \$ 6 7 4 6 6 2 7 8 6 0 7 8 6 8 2 5 4 9 2 4 6 7 9 4 6 6 7 8 2 7 8 9 9 7 6 7 6 2 5	PLYROASS PLYROASS	3
140	X 0 0+0		PLTRe#40	4
141	00 240 1 021E0		PL 786141	8
143	CALL BURGER &	1671:0.00.00000000000000000000000000000000	PLYROE43	7
165	# S XOI 8		PCVR6844	8
749	00 834   4838 00 834   4838		PLYROA45 PLYROA46	11
147	ひまたと 福行社員長島 く ゅん	2474.8,88.2070648)	PLYREE47	24
149	520 A 0 A0012 X s X0112		PLYROS49	14
944	544 4 4 4481A		FINGREA	3.4

```
CALL SYMBOL(=,40.3,8878,08, 23HUBIVERSAL TIME IN MOURS,90,5.23)
C WRITE PROGRAM INPUT DATA ON PLOT
150
                                                                                                                                                                                                                PL TROSSO
151
                                                                                                                                                                                                                PLTR0151
152
                                                                                                                                                                                                                PLTR0152
                                     CALL SYMBOL(15.5.7,9270:68.20MMAN-PLANCK 100 SLOUD.0.0.20)
CALL SYMBOL(15.5.7,7670:68.20M POR .0.0.20)
CALL SYMBOL(15.5.7,6670:68.20M FOR .0.0.20)
CALL NUMBER(16.3.7,6670:08.ELGAT(KVR).070.-1;
IF (IEASE,GT.1) GO TO 28
153
                                                                                                                                                                                                                PLTRes53
                                                                                                                                                                                                                                         17
154
                                                                                                                                                                                                                PLTRes54
                                                                                                                                                                                                                                          18
155
                                                                                                                                                                                                                PLTR0155
                                                                                                                                                                                                                                          19
                                                                                                                                                                      .0.0.20)
156
                                                                                                                                                                                                                PLTR0156
PLTR0157
                                                                                                                                                                                                                                          20
157
                                                                                                                                                                                                                                          21
                                      CALL SYMBOL(15.5,7,3670:08.23MRELBASE POINT&6:0:13)
CALL SYMBOL(15.5,7,207.68. &H LTT =:070.8)
CALL NUMBER(16.22,7,201:08.RHIPDE-0:0.3)
198
                                                                                                                                                                                                                PLTRe158
                                                                                                                                                                                                                                          24
159
                                                                                                                                                                                                                PLTRat59
                                                                                                                                                                                                                                          25
160
                                                                                                                                                                                                                PLTR0160
                                                                                                                                                                                                                                          26
                                    CALL SYMBOL(15.5.6.6.8.8.8.29H SUB FLEVATION = CALL SYMBOL(15.5.6.8.8.29H SUB FLEVATION = CALL SYMBOL(15.5.6.8.8.8.29H MORN @LEVATION = CALL SYMBOL(15.5.6.8.8.8.29H MORN @BETTER SYMBOL(15.5.4.8.8.8.8.29H MORN @BETTER SYMBOL(15.74.5.8)8.28H GBOUD DRIFT = CALL SYMBOL(15.74.5.8)8.0.88.28H GBOUD DRIFT = CALL SYMBOL(15.5.5.5.8.8.8.29H CLUDD GROUTH = CALL SYMBOL(15.5.5.5.8.8.8.29H CLUDD GROUTH = CALL SYMBOL(15.6.94.5.698.08.88.29H CLUDD GROUTH = CALL SYMBOL(15.6.94.5.478.08.88.29H CLUDD GROUTH = CALL SYMBOL(16.94.5.98.88.29H C
161
                                      CALL SYMBOL(15.577,847.88, BH LENS m/070,8)
                                                                                                                                                                                                                                          27
                                                                                                                                                                                                                PLTR8561
162
                                                                                                                                                                                                                PLTROSAZ
                                                                                                                                                                                                                                          28
163
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164
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165
                                                                                                                                                                                DEG , 60 :0 . 29 ) PL TR0265
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166
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167
                                                                                                                                                                                 DEG. 40 70 . 29 ) PLTR 0167
                                                                                                                                                                                                                PLTRO168
                                                                                                                                                                                                                                          34
169
                                                                                                                                                                                 DEG. 40 .0 . 29 ) PLTR0 69
                                                                                                                                                                                                                                          35
170
                                                                                                                                                                                                                 PLTR0170
                                                                                                                                                                                                                                          36
171
                                                                                                                                                                               R/A,0,0,28) PLTR0171
                                                                                                                                                                                                                                          31
172
                                                                                                                                                                                                                PLTR0172
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173
                                                                                                                                                                           KM/SEC4070,28)PLTR0475
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174
                                                                                                                                                                                                                 PLTR8174
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175
                                                                                                                                                                          MM/SEC.020,29)PLTR0275
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176
                                                                                                                                                                                                                PLTR8875
                                                                                                                                                                                                                                          42
177
                                                                                                                                                                           MRS. . 8 . 8 . 27) PL TR8277
                                                                                                                                                                                                                                          43
178
                                                                                                                                                                                                                PLTRO178
PLTRO179
                                                                                                                                                                                                                                          44
                                       60 40 55
                                                                                                                                                                                                                                           45
                      C PLOT TITLE FOR MULTIPLE CASE PLOT
21 CALL SYMBOL(15.5.7,3670:00.20MMULTIPLE GASE INPUT .0.0.20)
22 CALL SYMBOL(15.5.5.2.0.00.17457AITOMS COMBINED.0.0.17)
180
                                                                                                                                                                                                                PLTROSSO
181
                                                                                                                                                                                                                PLTRO181
                                                                                                                                                                                                                                          46
182
                                                                                                                                                                                                                PLTR0182
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183
                                                                                                                                                                                                                PLTR0183
                                                                                                                                                                                                                                          48
                                       Do 59 18 1.NS
184
                                                                                                                                                                                                                PLTR0184
                                                                                                                                                                                                                                           49
185
                                       J = N95(1)
                                                                                                                                                                                                                PL TROSSS
                                                                                                                                                                                                                                          50
186
                                       CALL SYMBOL (15.68.440.68.NAMEC1.4). 8:0.48)
                                                                                                                                                                                                                PLTR0186
                                                                                                                                                                                                                                          51
 187
                                                                                                                                                                                                                PLTR0387
                                                                                                                                                                                                                                          52
188
                                      CALL SYMBOL(15.5.1.5.0.88.78FLOTTED .0.0.7)
                                                                                                                                                                                                                PLTROSAS
189
                       C
                                       GET THE DATE OF TODAY
                                                                                                                                                                                                                PLTR6189
190
                                       CALL DATE & TODAY 9
                                                                                                                                                                                                                PLTR0190
                                                                                                                                                                                                                                          55
191
                                      CALL SYMBOL( 15.74:1.3476.08.700AY, 8:0.8)
                                                                                                                                                                                                                PLTR0191
192
                       C
                                                                                                                                                                                                                PLTR6192
193
                       C
                                      SET ORGIN ON ZERO TIME
                                                                                                                                                                                                                 PLTR0193
194
                                                                                                                                                                                                                 PLTR0194
195
                                       CALL PLOT (0,002.5,03)
                                                                                                                                                                                                                PL TR0195
196
                       C REWIND EMPUT DATA TAPE
                                                                                                                                                                                                                PLTR0196
                                      BENIND 09
                                                                                                                                                                                                                PLTR0197
                                                                                                                                                                                                                                          58
                       C READ SPOCH DATE
198
                                                                                                                                                                                                                 PLTR8198
                      C READ &9,1001) EPOCH
C READ A BAY OF DATA
AT HEAD $9,1000 DJUL, SDAYSTHONTH, TYEAR, (CSI), D&I), La1, 6)
199
                                                                                                                                                                                                                 PLTR0199
                                                                                                                                                                                                                                          59
 200
                                                                                                                                                                                                                PLTRO200
PLTRO201
201
                                                                                                                                                                                                                                          62
                      C END PLOT FILE IF NO MORE INPUT DATA THE TARE

IF (DULL-Ed; 997.0) GO TO 12

C SKIP GVER TO NEXT RECORD IF DATA NOT BITHIN DATES REQUESTED

IF (DULL-LT: BEGIN) GO TO 11

IF (DULL-TINIS) GO TO 12

IF (DULL-TINIS) GO TO 12

IF (CDULL-EPOCH): GT+365+0) EPOCH & SO5+0

C SET UP RATA IN D. OF FORMAT
202
                                                                                                                                                                                                                PLTR0202
203
                                                                                                                                                                                                                PLTROZO3
                                                                                                                                                                                                                                          70
 204
                                                                                                                                                                                                                PLTRORO4
205
                                                                                                                                                                                                                                          73
                                                                                                                                                                                                                PLTRe205
206
                                                                                                                                                                                                                PLTR8806
                                                                                                                                                                                                                                          76
207
                                                                                                                                                                                                                PLTRo207
                       C SET UP BATA IN PLOT FORMAT
208
                                                                                                                                                                                                                PLTROSOS
                      C SHT UP BATA IN PLUT FORMAT

# (DJUL=(EPOCH41?6) 7/22.8

DO 304 143.6

IF (G41) EU:24.0) GO TO 11

C MAKE SURE INTERVAL IS BETWEEN = 5.8 ABB 23.0 MRS? U.T.

IF (G61) LT.13.0) GO TO 13

C41) = C410

C MBVE N=ANSS TO PESITION FOR NEXT BAY
 209
                                                                                                                                                                                                                PLTR0209
                                                                                                                                                                                                                                          82
 240
                                                                                                                                                                                                                PLTR8210
                                                                                                                                                                                                                                          83
211
                                                                                                                                                                                                                PLTRO211
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                                                                                                                                                                                                                PLTROR12
 513
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214
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215
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 216
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248
                                                                                                                                                                                                                                         96
                                                                                                                                                                                                                PLTROB1
218
                                                                                                                                                                                                                PLTRO219
                      C DON'Y PLOY IP 9 FORITION IS OFF LOWER END OF SCALE
IF (W.LT; 0) 00 TO 180
GALL BAR(X2Y20.0; W1.0049W.3.2)
220
                                                                                                                                                                                                                 PLTR8220
                                                                                                                                                                                                                                          97
351
                                                                                                                                                                                                                PLTR0221
 222
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253

22	5 180	X-ANIS POSITION BARN IF IT WAS SEEN MOVED ABOVE IF (USI) LT B. 0 ) X x x04	PLTRO824 PLTRO825 &62
55	7 82	PLOT FILE CALL PLOT(X5,070:0:999)	PLTR0226 PLTR0227 &06
22		RETURN FORMAT (F10]2:12:A3+14/+12FX075;	PLTR6228 &67 PLTR6229 &68
23	0 2001	FORMAT (FS0.2)	PLTR0230 108
5 H &	**************************************	><><><><><><><><><><><><><><><><><><><	
	23894 W@RDS	OF MEMORY OSED BY THIS COMPILATION	11
67908	08 09-25-7;	12,305 SUBROUTINE PLYRYN	* 1111
		要産品の中の食物金ののお「簡4 出傷○人」() 10 G ☆ 中の中 9 g のの食中の	
	PREFAGE		
	PROCRAM BREAK COMMON LENGTH		
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PR	INTER SAMDEL	ENTRY	
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SECO	NDARY SYNDER	ENTR⊎.	
	B <b>ra</b> k	LENGTH	
1	BUKE	28	
3	86762	3 8	
4	BLKG	Ď.	
5	BUND	15	
7	BUNS	734	
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16	・ ア 部 場 で 。		
20	NUMBER		
21	SANGOS	TWO TO THE CARLES AND	
SHAF	AEMATON\#288	AND PARTES THEY EXCELLED SECTION OF STATES AND OF STATES A	J48C 050191/058571
	E WERE NO	MARMING FLASS IN THE ABOVE ANDREWELY	240 0301/1/0343/1
	9618 MORDS 0	MEKORY WERE USED BY GMAP FOR THAT ASSEMBLY,	
67946	08 09-25-7	2 12,318 CALENDAR PLOY BOOTING	
		enreeneeedagangalikur Cvfinh edeeedee	
	I CHANN		CALNOSOS
	S CB+84		######################################
		оновитали ок восинанультам ставания недереней в поставительной в поставительном в поставит	
	5 C	eesenasa walleps version of 5110186	CALNESOS Calnesos

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	CooseeeeLanguage Portran iv	CALN6807	
9	C	CALNOS09	
10	CB 8 8 4 9 4 8 4 8 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CALNOSIO	
12	Chandaaapungose.	CALNOS12	
13	C TO PLOT A GRID ON THELVE INCH PLAIN BAPER REPRESENTING AN	CALNOD13	
14	C ERTIRE 565 DAY YEAR, BACH LINE DRAWN FROM THE ABCISSA REPRESENTS	CALNOS14	
16	C A DAY OF THE YEAR, THE MONTHS OF THE SEAR ERE ALSO REDITED?	CALMOS15	
17	Cuesa-esa-ME4MQD-	CALNOSIS CALNOSI7	
18	C USENG THELVE INSH PAPER, GRIDS EDS THE DAYS ARE DRAWN TO A SCALE	CALNOS18	
19	C FASTOR OF 20 LINES PER INCH USING THE LIMBARY PLOT ROUTINES;	CALNES19	
21	C C B B B B B B B B B B B B B B B B B B	CALNOS20 CALNOS21	
22	C N9ME	CALN8822	
23		CALN6823	
24	CoopeaseQUTPUTe C SRID LINES ON OUTPUT TAPE SILE nd:	CALNO 824	
26	C GRID LINES ON OUTPUT TAPE RILE OS;	CALNOS25 CALNOS26	
27		CALNAB27	
28	THE GRID IS FORMED TO CONSTRUCT & GRED SYSTEM OF 365 DAYS IN A	CALN8928	
30	C THE GRID BEGINS ON JANUARY 1 AND ENDS ON DECEMBER 31 ALRAYS.	CALNES29	
31	C Aus aus brasus du andovéi ? Edné du bisculter SI sPilvis?	CALN6830 CALN6831	
32	CH-ST-0-SUBPROGRAMS REQUIRED-	CALNOS32	
33 34	C PLOTS C FACTOR	CALNOS33	
35	C FAGTOR C GRED	CALNOS34	
36	C NUMBER	CALNO836	
37	C PLOT	CALNOS37	
38	C SYMBOL	CALNOS38	
40		CALN0839	12
41		CALNEG41	
42	SUBROUTINE CALNOR	CALN6842	
84	DIMENSION MORTHS (30) DAVPM (42)	CALNOS43 CALNOS44	
45	DAYA MONTHS(1)/ 174WJANDARY FEBRUARY MARCH	CALNOS45	
46	1 APRIL MAY SUBE JULY AUGU	CALNO846	
47	25T SEFTEMBER SCROBER NOVEMBER DEGEMBER	CALNOS47	
49	CALL PLOTS BUFFER 1924791	CALNOS48	
50	CALL PAGTOR(1,25)  GALL BRID(5,8,0+0.6+0418,08353333339365.96)	CALNOS50	2
91 52	GALL BRID(B, 8, 0+0.6+0418, 08383338339365,96)	CALNOQ51	3
53	CALL ARID(0,005,0059914,6,6,5,2726)	CALNOSSE CALNOSSE	5
54	DO 4 261732	CALN8854	6
55	DQ 3 %61212 DQ 3 Me3222/\$	CALNOS55	7
56 57	XN \$ []	CALNESS6	8
58	X * X60; E8 CK, T8, 08p0765, XN.070 PCX)	CALNOSS7 CALNOSS8	10
59	X 4 X60.82	CALNOSS9	11
60	GALL PLOTIS, 8,0.3)	CALNOS60	12
61	CALL PLOT(8)8,002)	CALNOS61	13
63	CALL GUMBER(N. 6.0290368 XN.8309=X)	CALNOS62 CALNOS63	19
64	2 xex+0.02	CALNESS4	16
65	C	CALNOS65	
66	X * X D A V P M 2 1 / 2 5 2 0 - 0 2 6 8 3 CALL P C D T 1 2 2 3 0 - 0 2 6 8 3	CALNS866	18
66	GAUL PLOTESS, 042)	CALNOG67 CALNOG68	20
69	X * X60,505	CALNOG69	21
70	CALL PLOTESS, 04:39	CALNESTO	22
71 72	\$ GALL PLOTY87-0,04-2)	CALNOS71	23
73		CALNOS73	25
74	CALF SAMBOL (0.2088888888MBHIRSAS, 20748)	CALNOS74	26
75	RETURN	CALNOS75	27
76	BND	CALNOS76	5 8

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SHE BUTHER DOES NOT APPEAR IN READ, DATA, COMMON OR LEFT OF EQUALS (0)
 23532 WERDS OF MEMORY USED BY THIS COMPILATION
                               CALENDAR PLOT ROUTINE
67906 02 09-25-72 12,313
                                    PREFABE
   PRUSKAN BREAK 235E
    COMMON PSNOAH
    A COMMA BIAS
 PRIMARY SYMDER ENTRY
     CALMON
SECONDAGE SYMPRE BUTRE
     BLOSK
                LENGTH
     SYMBEF
     GRID
  12
     PLBY
     PLEVS
     FAGTOR
     NUNGER
     SYNBOL
2362 IS THE NEXT AVAILABLE LECATION.

GMAP VERSION/ESCHEELY DATES JMPA 050178/952911

THERE WERE NO MARRING FLASS IN THE ABOVE ASSEMBLE
                                                   JMR8 096171/052571 JMPC 050171/058571
44 19299 HORDS OF MEMORY WESE USED BY GMAP FOR THES ASSEMBLY?
47906 08 09-25-72 12,317 SUBROUTINE MOPLS
                                  SUBREUTINE MORLT
                                                                               HOPL 8801
           HOPL 6803
           MOPL 8805
           CHARGOSSA WALLOPS VERBION OF BIZOLARS
                                                                               MOPLOSOS
                                                                               MOPLOSO7
           CHOSSESS ANGUAGE FORTRAN IV
                                                                               MOPLOSOS
                                                                               40°L0809
    10
           CDOSTOCOMASHINE-GS 025
                                                                               MOPL8810
    11
                                                                               MOPLOS11
    12
                                                                               MOPLOS12
    13
                   TO GRAPH THE COMPUTED RELEASE MINDOW TIMES FOR THE NASAWHR!
                                                                               HOPL 0813
    14
                    BARTUR TON CLOUD PROBEST PER A GOVEN MONTH OR PORTION OF 17
                                                                               MOPL 8814
    15
                                                                               MOPL 8815
           Свозновенатиоте
                                                                               MOPLOS16
                    THE SUBROUTINE WSES EXISTING CAUCOMR LIMBARY ROUTINES TO PLOT THE RELEASE TIMES CAUCULATED WOR THE BIC PROJECT THROUGH THIS PROGRAM ONTO A GRID AS SET UR IN SUBBOUTINE MODALD THE ENMUT
    17
                                                                               HOPLOS17
                                                                               MOPL 0818
    19
                    POSTYTON OF THE RELEASE ROINTSTHE TRACKING STATIONS USED AND
    20
                                                                               MOPL 0020
                    THE VALUE OF EASH SONSTRAINT AS BIVEN IN THE BLOT LABELEIRG,
                                                                               MOPL 6921
    21
    22
                                                                               MOPLOS23
    23
                   FILE 09 BY THIS PROGRAM,
                                                                               MOPL 8624
    54
    25
                                                                               MOPL 8825
           Cassesses | MBUTE
    26
                                                                               MOPL 0826
                                                                               MOPL 8827
                    1. FOR PLOY LABELLING ONLY-
                                                                               MOPL8829
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30	C KMB	-MONTH BEING PLOTTED AND/OR PRINTED	MOPL0830
31			MOPLO931
	C KYR	-YEAR BEING RLOTTED AND/OR PRINTED	MOPLO832
34	C PHEPDG	-GROBETIC LATITUDE OF BELEASE POINT(SEG)	MOPL 6834
	C LAMPDE	-LONGTYUDE OF RELEASE ROINY (DEG)	MOPL 0835
37	C		MOPL 0837
	C HREGHT	malfituda de Release Reint xugya earth Susface weerus	MOPL0838
40	C		MOPL 0840
	C	- MINIMUM ELERATION LOOK ANGLE FROM BACH STAVION - TO THE RELEASE 使うちゃす (DEG)	MOPL 0841
43			MOPLOB43
	C MESTR(3)	-MEXIMUM SON GEEVATION LOOK ANGLE FROM ESCH -TRACKING MYATIWN SORE!	MOPL 0844
46	•		MOPL 8846
	C RUSTR(4)	-MAXINUM MOON GREVATION LOUR ANGLE FROM EXCH -TRASMING STATION SDEG!	MOPL 8847
49			MOPL na49
	C RESTRISS	- MEXIMUM TOTAL SKY MACKORDUOD BRIGHTNESS OF THE - RELEASE PEINT THE SEEN FROM FACH TRACKING STATION	MÖPLÖĞ50
52	•	w (RAYLETCHE)	MOPL0852
	C RESTRICT	-EGNSTANT LONGITUDINAL DRIFT RATE OF THE ELOUD	MOPL 0953 Mopl 0954
55		-APTER RELEASE SELATIVE TO THE TRACHING STATIONS	MOPL 8855
		● (MM #BEC)	MOPL 8856 Mopl 8857
58	C RESTRIT	-MININUM TRACKING BERIOD REGUIRED (HRS)	40PL0858
	C RESTRISS	-ONE-MALE OF CLOOD GROWTH BATE AFTER RELEASE	MOPL0859
61	C	ONE-MALE OF CLOOD GROWTH BATH AFTER RELEASE ORBLATTVE TO THE EARTH (MM/SEC)	MOPLOS60
	C NAME(3,42)	-NAME OF TRACTION GRATTONS HERO	MOPL 0962
64	C	-NAME OF TRACKIOS STATIONS USED	MOPL 8863
	C IGASE	-CASE NUMBER	MOPL 0865
67	e		MOPLOS65
	C 2.WSED KOR DA	TA RLOTTING.	MOPL 0868
70	C NS	-THE NUMBER OF STATIONS USED IN THE PROGREM	MOPL 6870
	C NOBYEE)	WAN ARRAY CONTAGNIES THE STATION NUMBERS USED	MOPL8871 Mopls872
	C		MOPLOS73
	C ENGCH	-JULIAN DATE OF JABUARY & BE YEAR DATA BERINS ON	MOPL 0875
	C BUBL	the second of th	MOPL 0876
	C BURF	-JULIAN DATE FOR CURRENT DATA	MOPLOS77
	C SUBIN	-JULIAN DATE TO BESIN BRINTING AND/OS PLOTTING	MOPL 8879
81	C FENIS	-JULIAN DATE TO STEP ERINTING AND/OR PLOTTING	MOPL 0880
	C C(@)	**************************************	MOPL6882
84	C	STATE OF BOND SAND STANDS STAND TOWNER	MOPLESS4
	C B(6)	-ARRAY OF COMBINED WINDOW STOP TIMES FOR CORREN	MOPLOES5
87	C	-DATE - CONSTABIL MINSON SIGN TIMES FOR CORRES	MOPL 0987
	C C		MOPL6888
90	C808000000UPPU70		MOPL6890
	C BATA FOTNES F	OR PLOT ARE STORED ON TAPE FILE 64 AT 556 BP1	MOPL 0891
93	C		MOPL 6893
	C X	-POSITION OF PLOT PEN ON X-EXIS REPRESENTING THE -DATE BEING REGITED	MOPLeg94
96	C		MOPL 0896
	C Y	-POSITION OF PLOT BEN ON Y-XXIS REPRESENTING THE -STARY TIME KOR DATE BEING CLOTTED	MOPL 0897
99	C		MOPL 6899
	C H	-POSITION OF PLAT MEN ON Y-AXIS REPRESENTING THE -STOR TIME FOR DATE BEING CLOTTED	MOPL 0201
102	C		MOPL 0502
103	CO		MOPL 0903

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THES SUBROUTING NILL PLOT DATE ONLY KOR A GIVEN CALENDER MONTH MOPLOSOS ON PORTION OF ITEPLOTING OF THO OR NORE CALENDAR MONTHS MOPLOSOS RESULTES THAT THE REGERAN SE REINITIEVED COR PLOTTING EACH MOPLOSOS
104
                               C
                                                                                                                                                                                                                                                                               MOPLOS06
106
                                                     RESURES THAT YME EROGRAM BE MEINIVIATED ESK PLOTIENS ENCH
CAUBNDAR MONTH, THIS RESTRICTION AS DUE TO THE GRID PLOT
SUBERATED THROUGH SUBROUTINE MECALD, & CHECK IS MADE TO ENSURE
THE NUMBER OF DAYS PAST THE PARSY OF THE SIVEN CALENDAR MONTH
IS HITHIN BOUNDS; THIS CHECK IS BONE SO THE SLOTS OF
SUBCOSSIVE CALENDAR MONTHS CAN BE MADE FROM ONE FILE 69 TAPE,
MEGLECTING THIS RESTRICTION AND ATTEMPTING TO PLOT SUCCESSIVE
CALENDAR MONTHS ON THE SIME GRID WILL GIVE AN ERROMEOUS PLOT;
THIS PROGRAM MANDLES UP TO 12 STATIONS TO GET COMPINED WINDOWS
107
                               C
                                                                                                                                                                                                                                                                                40PL0107
                               Ç
                                                                                                                                                                                                                                                                                MOPLESOS
109
110
111
                               C
                                                                                                                                                                                                                                                                               MOPLOSOS
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112
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113
114
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115
                               C
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                             C BAM CCALCOMP LIBRARY BODY [ 18 ]

C PLOT CALCOMP LIBRARY BODY [ 18 ]

C SYMBOL CCALCOMP LIBRARY BODY [ 18 ]
116
                                                                                                                                                                                                                                                                               MOPL 0116
MOPL 0117
118
                                                                                                                                                                                                                                                                               MOPLOS18
                                                                                                                                                                                                                                                                                MOPL 0119
 120
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                                                            BATES CHAR ASSEMBLY
757
                              C
                              C
122
                                                          MOBALD
123
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                             124
125
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                                                 126
128
 129
130
131
                                                  COMMODIFIER INTHE (3875) BHT(25) F FRMBD9(15) 4 TE (15) # WOVE (15)
133
                                                                                                                                                                                                                                                                               MOPL 0232
MOPL 0233
                                                 COMMONDER KT / ICASE 1 1 F 3 NAL
DIMENSION C(6) + D(6)
DIMENSION NDAYS(129
                                                                                                                                                                                                                                                                                MOPLOS34
134
135
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156
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                            DIMENSION NUMBER (0,24,1938;31,38;31,38;31,38;30,38,30,31/
C SET UP PLOT GRID
CALL MOGALD (KMD)
C LASEL YEARTS
CALL NUMBER (0,24,190708;0270,010,01)
CALL NUMBER (0,24,190708;0270,010,01)
138
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139
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140
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141
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143
                                                   CALL SUMBER (=,24,14,75,108,-170,070,0)
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 145
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                                                  DO 246 1 ex.10

CALL NUMBER ( = 116; 4, 8, 85, x+8; 0, 6%)
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 146
 167
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148
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152
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CALL SYMBOL(-,40,3,88%8408, 23HUNIVERSAL TIME IN HOURS,90,8,23)

C WEITE PROGRAM INDUT DATE BD PLOX
193
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155
156
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MOPL 0257
                                                  CALL SYMBOL(15.5.7,9226408.20MMAN.PLANCK ION GLOUD 0.9,28)
CALL SYMBOL(15.5.7,7670408.20M RELEASE TIMES 0.0,220)
CALL SYMBOL(15.5.7,6070408.20M POR 0.0,20)
CALL SYMBOL(15.5.7,6070408.20M POR 0.0,9,20)
 157
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158
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159
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160
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799
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                                                GALL SYMBOL(15.9.7.209.88. BH LTT = A070.8)

GALL SYMBOL(15.9.7.203.08.8M)PP9.040.3

GALL SYMBOL(15.9.7.849.88. BH L9MG #7870.8)

CALL SYMBOL(15.9.6.83.88. BH ACT = 070.98)

CALL SYMBOL(15.9.6.83.88. BH ACT = 070.98)

CALL SYMBOL(15.9.6.8.8.88.29H BH ELEVATION :

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CALL SYMBOL(15.9.6.8.8.88.29H MGRN BLEVATION =

CALL SYMBOL(15.9.6.8.8.88.28H MGRN BLEVATION =

CALL SYMBOL(15.9.6.8.8.88.28H MGRN BLEVATION =
164
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169
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166
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169
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170
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 171
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DEG, 1070.29)MOPL0274
 173
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 174
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179
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176
                                                                                                                                                                                                                                        R/A, 9, 8, 28) MOPL0476
                                                                                                                                                                                                                                                                                                                  38
                                                    GALL BUMBER(16,74-64098+08,28578(5)96.0-2)
                                                                                                                                                                                                                                                                                MOPLOS77
```

176 GALE SYMBOLICES.74.54878408428# SEBUE DREFT & MM/SEC1070	,28 MOPL 0178 4
179 CALL GUMBER(20: V4. 50 9 0 9 0 9 0 0 1 0 0 0 1 0 0 0 0 2 )	MORLOSTP 4
186 GALL SYMBOL(15.5.5.6.8.88.29H CLBOD GROWTH & MM/SEC-070	:29) MOPL 8880 4
181 CALL BUMBER(16, 94, 94698408; BESTRYA)96,041)	MOPLOS81 4 27) HOPLOS82 4
162 CALL SYMSOL(15,66.76478408137RTRACKSNE TIME = ARS., 9.8.	
183 CAUL BUMBER(16, 74, 9, 478, 08, 888 TR(X) +0, 0, 2)	HOP1 9883 4
184 60 76 22	MOPL 1884 4
185 C PLOT TITLE FOR MULTIPLE CASE PLBY	MOPLOSS
166 21 CALL SYMBOL(15,5,7,3675)06.20MMULTTELE GASE 1NPUT 70,0,26) 187 22 GALL SYMBOL(45,5,5,8,88,12MSTATTOMS COMBINELYGEO,1,17)	MOPL 8486 4
187 22 GAUL BYMBOL(45, 5, 5, 5, 6, 6, 12447ATTOMS COMBINELY 6:0, 17)	MOPL6487 4
189 DG 59 18 16NB	MOPLOSES 4
190 J a Mas(1)	MOPLOS90 5
191 EALL BYMBOC(15,68,440788,NAME(193),4,0,48)	MOPL 6891 3
192 \$5 Y 8 Y 8 38	MOPL 0892 5
193 CALL BYMBOC(15,5,1,9,8,88,7MPCOTTED (8,8,7)	MOPL 6493 5
194 C GRY THE DATE OF TODAY	MORL 0894
195 GALL DATE & TODAY &	MOPL0895 5
196 GALL BYMBOLY 15,74,8,8496,68,70082,6,6,8	MOPLOS96 5
197 6	HOPLOS97
198 C SET OREIN ON ZERO PIME	MOPL 0198
\$99 C	MOPL0299
200 GALL PLOY (11,001,5008)	MOPL0800 5
201 C REMIND IMEUT DATA TAPE	MOPL 6202
505 WEHIND 04	MOPLORO2 5
203 C READ EPGEN DATE	MOPLOROS
204 READ 19:50817 EPOCH	110PL0804 6
205 C ADJUSTMENT FOR EPOCH DATE FOR EST. BAY OF THE MUNTH 206 NOA 60	10PL 0205
206 NDA +0 207 DO 200 143-KMO	MOPL 0206 6
208 289 MDA ENDA + NDAYS(%)	MOPLORO7 6
209 NDA SNDA - NDAYS(HMO) o KDA	MOPL6268 6
210 C READ A BAN OF DATA	21. W M 20 M
211 82 RBAD 19:80807 DJUL: EDAY ! MONTH : 178AB (GS1) : Del) : 1:1.4)	MOPL8210 Mopl8211 6
212 C EED REST FILE IF NO MORE INPUT DETA XN YAPE	MOPL0212
213 IF (DWUL_154,999,0) 00 70 12	MOPLORIS 7
214 C SKIP OVER TO NEXT RECORD IF DATA NOT WITHIN DATES RESHESTED	MOPL 0214
215 IF (DWWLLLT:BEGIN) GO TO 11	MOPL 6215 7
216 IF (DWUL-GY:FINIS) GO TO 12	MOPL8816 8
217 IF ((DJUL-EPBCM) GT4565an) EPBCH # 56548	MOPLAR 7 8
216 C SET UR DATA IN PLOT FORMAT	MOPL 0218
219 X + #DJOK-(EPOCHAF(NDA))) + #, 2	MOPL6819 8
220 DQ 100 le26	MOPL0820 8
221 IF (GVI) ED: 24.0) 60 70 11	MQPL0221 9
222 C MAKE SURB INTERVAL IS BETWEEN -5.5 AND 25.0 HRSq U.T.	MOPL 8222
222 C MAKE SURB INTERVAL IS BETWEEN -5.5 AND 25.0 MRS9 U.T. 223 IF (611)-LT113.0) CQ TO 16	MOPL 6223 9
544 P611 P611 D 54'U	MOPL 0224 9
225 Dell +Dell - 24.0 226 C Meve M-AXES TO PESETION FOR NEXT DAY	MOPL0225 9
ASO U HEYE ADAARN TO PROSETTION PRE NOTE MAY	MOPL 8226
228 IF (E(1):LT:(-3+0)) C(1) *-5/8	MOPLOR27 9
A	MOPL 6228 80
229 63 V 60111/2.0	
229	MOPI 6970 30
556 62 A *0(1)\\$'0	MOPL 0270 40
232 IF (Walt 2010) GD TO 186	MOPL 0831
232 IF (H.LT.0101 GG TO 186	MOPL8232 40
232 IF (H.LT.0101 GQ TO 186  233 CALL BARAXAYXO.R.M. 4427W.8783  234 C MOVE X-ANS FOSTTION EACH IF IT WAS DEED MOVED ABOVE	MOPL 0831
232 IF (H.LT.0101 GD TO 186 233 CALL BARIX-YIO. B. M. 4421 M.S. SEEN MOVED ARRIVE	MOPL 0831 MOPL 6832 60 MOPL 0833 60 MOPL 0834
232 IF (W.LT.010) GQ TO 186  233	MOPLOR31 MOPLOR33 RO MOPLOR33 RO MOPLOR39 MOPLOR39
232 IF (W.LT.010) GQ TO 186  233 CALL BARAXAYTO.R.M. 4427W. 878)  234 C MOVE X-ANAS POSITION EASH 1F IT WAS DEED MOVED ABOVE  235 160 IF (Sti) Line, 0) X qx = ,04  236 C END PLOT FILS  237 ARRAL BEOTYPEORE 0.0041	MOPL 0831 MOPL 0833 80 MOPL 0833 80 MOPL 0839 80 MOPL 0836
232 IF (W.LY.010) GQ TO 186  233 CALL GARAXAYYO. 0. M. 4427W. 8 x x 3  234 C MOVE X-ANAS POSITION EASH 1F IT WAS DEED MOVED ABOVE  235 160 IF (GAI) LIT. 8,0) X 9x - ,04  236 C END PLOT FILS  237 A2 SALL BIOTEVE OR 10.0001	MOPL 0831 MOPL 0833 80 MOPL 0833 80 MOPL 0839 80 MOPL 0836
232 IF (#.LY.010] GQ TO 186  233	MOPLOR31 MOPLOR33 RO MOPLOR33 RO MOPLOR39 RO MOPLOR39 RO MOPLOR37 R1 MOPLOR37 R1 MOPLOR38 R1 MOPLOR39 R1
232 IF (W.LT.0101 GD TO 186  233	MOPLOR31 MOPLOR33 RO MOPLOR33 RO MOPLOR39 RO MOPLOR39 RO MOPLOR37 R1 MOPLOR37 R1 MOPLOR38 R1 MOPLOR39 R1

Bung   SemendMair   Single   SemendMair   Single   SemendMair   Single   SemendMair   Single   SemendMair   Single   S	
PROBRAM BREAK 1823  COMMON LENGTH	
PROSRAM BREAK 1623 COMMON LENGTH 6 V GRUNT BIVS 5 PRIMERY SYNDEP ENTRY  BECONDESY SYNDEP ENTRY  BLOOK LENGTH  2 BLOOK LENGTH  2 BLOOK 28 8	
COMMON LENGTH  PRIMERY SYNDEP ENYMY  BLOOK SANDEP ENYMY  BLOOK SANDEP ENYMY  2 BLOOK SANDEP ENYMY  2 BLOOK SANDEP ENYMY	
2 BUME	
2 BLME2 8 2 BLME 28 2 BLME 38 3 BLME SANDEL ENAMA  1 BLME 38 2 BLME 38	
HOEUT 8 SECONDASA SANDEL ENAMA  PROSE SE S	
2 BLME2 8	
1 BUMB 28 2 BUMB 8	
1 BUNG 28	
2 BUMB 28	
5 BFNE5 8	
5 BFNE5 8	
3 8488	
4 BLAS 16 5 BLAD 15	1
6 BUNG 189	
7 Bars 8	
SVHREE	
10 888	
11 DEVE	
12 PUNY	
13 ,FB例V <sub>T</sub> 14 ,FR與D <sub>Y</sub>	
15 , MAN,	
16 .FBHT.	
20 NUNDER	
21 SYMBOL 1423 IN THE NEXT AVAILABLE LUCATION,	
JMAP VERBSON/858EMBLY DATES JMRA #\$0174/052921 JMPC 85	0171/05297
THERE WERE TO WARNING FLAGS IN THE ABOVE ASSEMBLE 19633 WURDS OF MEMORY WERE USED BY GHAP FOR THIS ESSENGLY?	
areas and a second and a second as a secon	
97986 02 09-25-72 12,326 MONTHLY CALBADAR REGT REUTINE	
annennennennennennennennennennennennenne	
1 CMDGA MONTREY CALENDAR MEDY RGUTRNE 2 CHORA MONTREY CALENDAR MEDY RGUTRNE 2 CHORA MONTREY CALENDAR MEDY RGUTRNE	MOCADEDS
3 C	MOCADEOS
4 CDORGOODSTARY OF BOCUMENTATION CARRESTANCES CONCESSES	MOCADED4
	MOCABED5 Mocabed6
9 C	MOCADED7
6 CB+BQ+BGNABA WALLBPS VERBION OF \$1301/49	
6 CB+BB+BB+BB+BBALLBPS VERBION OF \$1301/49 7 C 8 73.84+604LABSUAGB-EORTRAN IV	HOCASES
6 CB+BB+BB+BB+BBA WALLEPS VERBION OF \$1301/49 7 CB+BB+BB+BB+BB-EORTRAN IV 9 CB+BB+BB+BB+BB+BB-GE 625	
6 CB+BB+BB+BB+BB+BB+BB+BB+BB+BB+BB+BB+BB+B	MOCADEDS MOCADEDS MOCADE10 MOCADE11
CB-BOODS NABA WALLEPS VERSION OF \$1301/49  7 C 8 73.840000LAMSUAGE_EORTRAN IV 9 C 10 CB-86000MABHINE-GE 625 11 C 12 CB-86000000PURPOSE- 13 C TO PLOT A GRID ON TABLYS INCH RLAIN RAPER REPRESENTING BABH	MOCADBOS MOCADBOS MOCADB10 MOCADB11 MOCADB13
CB+BB+BB+BB+BBHABA WALLEPS VERBION OF \$1301/49  7	MOCA0808 MOCA0810 MOCA0811 MOCA0811 MOCA0813 MOCA0813 MOCA0814
CB++0++0+EANGUAGE-EORTRAN IV  CB++0++0+LANGUAGE-EORTRAN IV  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	MOCA0809 MOCA0810 MOCA0811 MOCA0812 MOCA0813 MOCA0814 MOCA0815
CBOBGOODSNAGA WALLOPS VERBION OF \$1301869  7 C 8 CSOBGOODSNAGE FORTRAN IV 9 C 10 CBOBGOODSNAGHINE-GE 625 11 C 12 CBOBGOODSNAGHINE-GE 625 13 C TO PLOT A GRID ON TRELVE INCH REGIN RAPER REPRESENTING RABH 14 C BAY OF THE MONTHS BASH LINE BRAWN FROM THE ABGISSA RETRESENTS 15 C A DAY OF AKMO:, 16 C 17 CBOBGOOSSMAGHINDO	MOCA0808 MOCA0810 MOCA0811 MOCA0813 MOCA0813 MOCA0813 MOCA0813 MOCA0817
6 CB+BB+BB+BB+BB+BB+BB+BB+BB+BB+BB+BB+BB+B	MOCA0809 MOCA0810 MOCA0811 MOCA0813 MOCA0813 MOCA0813 MOCA0813 MOCA0817 MOCA0817
CB-BB-BB-BB-BB-BB-BB-BB-BB-BB-BB-BB-BB-B	MOCAGEGE MOCAGEGE MOCAGEGE MOCAGEGE MOCAGEGE MOCAGEGE MOCAGEGE MOCAGEGE MOCAGEGE MOCAGEGE

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23
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24
          CaasseaseOUTPUTO
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                    GRED LINES ON OUSPUT TAPE FILE OS:
25
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26
                                                                                          MOCA8826
          CBOSSOCSSTRICTIONSOCS TO CONSTRUCT & GRID SYSTEM OF THE DATS OF
27
                                                                                          MOCA8827
28
                                                                                          MOCA 6828
29
                    INHO ONLY.
                                                                                          MOCA 0829
30
                                                                                          MOCA 0030
          Cooseessuspengeams RequireD-
31
                                                                                          MOCA0031
32
                    PL075
                                                                                          MOCAG832
33
                   FRETOR
                                                                                          MOCA8833
                    GRED
34
                                                                                          MOCA0834
35
                    MUMBER
                                                                                          MOCABB35
36
                    PLOT
SYMBOL
                                                                                          MOCADE36
                                                                                          MOCA0837
38
                                                                                          MOCA 0838
39
          40
                                                                                          MOCABB40
                SUBROUTINE MOCALD (MMO)
61
                                                                                          MOCAD841
                DIMENSION BUFFER(1024)
42
                                                                                          MOCA6942
43
                DIMENSION MONTHS (96) DAVPM($2)
                                                                                          MOCA0843
                64
                                                                                          MOCABB44
45
                                                                                          MOCA0845
                                                                         . 61
46
                                                                               JABU.
                                                                                          MOCAD846
                                                                         , 64
47
                                                                                          MOCA 0947
               DATA BHONTHS(1).18 9.16)/6H
                                                     -6W
                                                                               FEBR.
48
                                                                . .
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                                                                . 64
                                                                         . 6H
49
                                                     -64
                                            PRACHO
                                                                                          MOCABB49
               DATA SHONTHS (1) - 1 = 1 7 . 24 ) / 6H
50
                                                                                          MOCA0850
51
                                                     .64
                                                                , 6 H
                                            の天師正
                                                                          , 6H
                                                                                          MOCA0851
                                                                . .
52
                DAYA SAUNTHS (1) 61825 32) 6H
                                                     .64
                                                                          . 64
                                                                                APR.
                                                                                          MOCA0852
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53
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                DAYA SMUNTHS(I) & I = 38,48)/6H
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                                                                          2 6 M
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54
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                                                     -6¥
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55
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                DAYA SHORTMS(I) . I . 48,48)/6H
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57
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               DATA (MONTHS; I) . 1 . 49, 56) /6H
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59
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               DATA SAGNIMS(1) . 1 = 57,64)/6H
60
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                                                                                AUG.
                                                     96W
                                                                          . .
                                                                                          MOCA0860
                                                                , 6 W
61
                                                     .6¥
               DAYA SPONTHS(11-1-69,72)/6H
                                                                         . 61
                                                                                          MOCADS61
                                                                          . SH SEPTE
 52
                                                                                          MOCA 0862
 63
                                                                . 64
                                                     . 64
                                                                          , 6H
                                                                                          MOCA0863
               DATA CHONTHS(I)-1975,863/6H
                                                     .64
                                                                , 6H
                                                                          . 68
 64
                                                                               0C7.0 a
                                                                                          MOCADB64
                                            CHBER
65
                                                     . 6H
               DATA SHORTHS (1) 41 #85 88 1/6H
                                                                                          MOCA 0865
                                                                         . .
                                                                ...
                                                                                          MOCA 0066
 66
                                                     .64
                                                                          . 6#
                                                                               NORE.
                                                                , 6H
                                                     96W
                                                                         , 6 H
67
               DAYA (MONTHS/I) & I = 89,96) /6H
                                                                                          MOCA 0867
                                                                         , 6H
                                                                               DEGE.
 48
                                                                                          MOCA0868
                68
                                                                                          MOCA0869
 70
                                                                                          MOCA8870
71
                                                                                          MOCA 0871
                GALL FACTOR($,25)

GALL GRID(0:0:0:0:0:4:270:0833338833NDA85(KM0)796)

DAYS + 0:12 - FLCAT(NDAYS(KM0))
72
                                                                                          MOCA0072
73
                                                                                          MOCA6873
74
                                                                                          MOCA 0874
                CALL ARID(0.805e010857DAYS, 0.2,1756)

X # -6.004

DO 2 0.522565
 75
                                                                                          MOCA 0875
76
                                                                                          MOCA 0876
 77
                                                                                          MOCAD877
                XN # N

X * X60.58

CALL NUMBER(K, *0,08+0785, XN+070+*1)

X * X60.58
78
                                                                                          MOCA8978
                                                                                          MOCAO879
                                                                                          MOCASSSO
MOCASSSI
 80
 81
                CALL ELOT(8,8,043)
CALL ELOT(8,8,042)
X0X-0,02
82
                                                                                          MOGA0882
                                                                                                     12
83
                                                                                           MOCACES3
                                                                                                      13
84
                                                                                                     14
                                                                                          MOCA6984
                CALL MUMBER(#, 8.02+0765, XN+670+-1)
85
                                                                                                     15
                                                                                          MOCA 6685
              5 X+X+0.05
86
                                                                                          MOCA 0886
 87
                                                                                          HOCA0087
                X eX + 0,12 a Davamenno; = 0,000
GALL PLOY(X:0.0-3)
CALL PLOY(X:0.0-2)
88
                                                                                          MOCAGESS
                                                                                                     18
89
                                                                                          MOCA6889
90
                                                                                          MOCA8890
                                                                                                      50
                X = X40,888
CALL SLOTTE, 8,04.39
CALL PLOY(X)=0.0472)
91
                                                                                                      21
                                                                                          MOCABB91
92
                                                                                          MOCA0892
                                                                                                     22
 93
                                                                                          MOCA 0893
                                                                                                      23
 94
                                                                                          MOCA8894
          C
                 TALL BYMBOL (0.5.=0;29;5.08;MBNT#8(5):070,48)
                                                                                          MOCA0895
 95
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97 GALL SYMBOL (0 98 MSYURM 99 SND	. D. B. C. 48. MENTHE (1) 90, 0, 48) MOCA 08 MOCA 08 MOCA 08	98 27
ペンペンペンペンペンペンペンペンペンペンペンペンペンペンペンペンペンペンペン	MEAD, DAYA, COMMON OR LEFT OF EQUALS (=)	
SAGGI MENDS OF WEHORA OSED	BY THIS COMPILATION	
67986 02 09-25-72 12,331	HONTHLY SALENDAR REOF ROUTING	
	ARREST SECTION OF LINE HOLVEN eques & second octor	a 0 a 0 e
PREFAGE		
PRUSES SYNDSF ENTRY		Andrew with the control of
M88678 6		
SECONDARY SYNDEF ENTRY		
BURRK LENGTH		
SYMREF		
1 GRTD 2 PLBY 3 PLBYS		
4 FASTOR 5 NUMBER 6 SYMBOU 2523 \$8 THE NEXT AVAILABLE LBC 8HAP VERSTON/ASSEMBLY DATES THERE WERE NO WARNING FLASS	ATION:  PPA 656174/052571 JMRB 056171/052571 JMP6 050171  IN THE ABOVE ASSEMBLY  SED BY GMAP FOR THES ASSEMBLY:	/052571

7986 08 69-25-72	18,468	THIS ROUVINE PETCHES THE NEXT GARD IMAGE	
		PROM THE TO BUFFER	
RREFAGE			
PROBRAN BREAK	320		-
COMMON PRINGLY	0		
A SERMI BIAR	3		
PRIMERS SYNDER	日日で日本		
NYESRE			
ECONDARY SYNDEF	ENTRE		
BP##K P	ENGTH		
SVEREF			
1 POHEP			
5 'bino'			
3 , PEFN.			
			NXEA
		**************************************	HXEA
	4 0	RROBRAM IDENTIFICATION	NIBA
	6 1	PROGRAM TITLE - NXCARD	HESA
	8 4	PROGRAM NO # = \$.1.9304 Pregrammed by - Thumas Masmon	NXSA
	30 =	COMPUTER REGUIRED - GE 625/639	NXSA
	\$1 °	MEMBERYPS - WOLDS MEMBERYPS - WOLDS	MERM
Xelele	24 0	RROGRAN LANGUAGE - GMAP	NXSA
	35 0 36 0 37 0	RUMPOSE  NEEDE ALLONG THE USER TO EXAMINE THE REXT LOGICAL RECORD	NXBAN NXBAN
	38 *	RESIDING ON FILE 65, THIS WEXT RECORD WILL NOT ACTUALLY BE USED AS AN IMPUT RECORD ONTIL IT IS REPERBUCED BY A	NXSA
	39 n 80 e	NORMAL FORTRAN READ STATEMENT;	NXEA
	81 °	MERMOD	HXBA
	23 •	THE NEET LOGICAL REGORD IS EXAMINED USING THE SYSTEM BURNOUTINE FROD. AFTER THE VEXT LOGICAL RECORD WAS BEEN	NEER
	26 •	SUMPOUTING , FOD, ANTER THE VEXY LOGISTL RECORD HAS SEEN BUYPUT TO THE GALLING PROGRAM, THE CURRENT RECORD INDEX IS BESET TO ITS PREVYOUS VALUE AND A NORMAL RETURN IS EXECUTED.	NXEA
- II	27 • 58 •		NXEA
	90 "	RESTRIBTIONS  L. THE FORMAT USED TO CONTERT THE MEXT CARD HUST MAVE ONLY A	HERM
	82 0	TYPE FIRLUS AND MUST READ ONLY ONE LOGISAL RECORD.	NXEA
	33 + 34 + 85 -	3, USE ONLY SINGLE OR NONESCRIPTED GUTPET ARRAY NAMES AS ARSUMENTS TO THIS SUBREUTINE.	ASXM ACXM ACXM
er er i en er er	86 a 87 s	S. ENTER THE INTEGER 1 IN THE FIELD WHICH SPECIFIES THE	NXSA
	Re a	ARRAY SEZE WHENEVER THE SUTPUT ARRAY NAME IS AN UNDIMEN-	NXER
	40 • 41 8		NXSA
	62 .	a, the input file must made seen previously openes by a normal fortran read before this subrouting is called for the first time.	NXBA
	45 0	INSUI/QUIPUT	NXGA
	47 •	CALLING SEQUENCE CALL NXCARD(FORMAT, A. \$. 0. J ? .) WHERE	和其母女 和其母女
	49 a 50 a	COSMAT & THE NAME OF THE SERAY CONTAINING THE SCD FORMAT USED IN DECOUINS THE NEXT LEGICAL RECORD.	NXSA NXSA NXSA
	91 e 92 e 93 e	A * THE MAME OF THE RIRST OUTPUT ARRAY AND I & THE LENGTH OF ARRAY AT	科技協会 発業的 本数法的
	94 e 99 o	8 & THE NAME OF THE SECOND GUYPUT ARRAY AND	MXGA

4 6 1		38 39 60		£ 70			
* : I					4		NX540058
÷				EVSTEM	SUBBOUTENES REQU	theD.	NXGAGGS9
		61					MERCOSS
		95			DD,		MXSAGOSE
		03		77.5	LI,		ESCOABEH
		64			TN.		MXSA0064
		64		NO.	11963 SUMBONTINGS	ADE PERMISED	NXSADO69
		67	6		Oded Genneeltung	and negatives	NAMADOS
			5#000#	22		MMENT GARDS ROSESESESESSESSESSESSES	HXEASCAS
			NXCARD		3,3 NXEA		NX640079
0 6 0 0 0 2 2 2 3 0 3 0 5 0 0 0 5 2 2 3 6 0 3 0 5 0 1 0 7 6 3 0 9 0 0 0 6 0 1 0 7 7 5 4 9 0 0	000 000 010 010 010						
						The second secon	
		21		EAUZ	0.3	CAUF RDE	NUBLETE
060000 0110 00			START		W 7 G	REPLACE THIS INSTRUCTION LATER	NX840073
000025 2220 00	800	75		LBXE	21	RCO LIST POINTER	NXSACO75
040112 2360 00	<b>010</b>	76		LDO	e0377777967777	FILE BOSE MASK	HXEA0076
088000 5380 85		44		LDA	0.3	ACS PRINTER	NXEADO7F
		78		7.75	STOP		NXBA0078
		2.75			#0206084DP	FILE CODE	NXCA0079
							NXSA0089
080014 7150 55						KEEP REARCHING FOR DEG SATURES	2SQ DABKM
000113 2390 00	910		SYOP	LUA		THE SERVICIAN FOR FOR FULL PLANTER	NXSACOS2 NXSACOS3
000003 7950 33	000	84		STA	3,30	SECOND ARBUMENT	HXSAOOSS
		85		SALL	PDUMP		NXSACOSS
							NA DA CODE
				221 - 0			
		86		RETURN	NXEARD		NXSACORS
							RECOMBEN
	T. 17		POUND			F1000 740000 100000	NXEA0086
						RINGT BUFFER ADDRESS	NXEACOBS
		94			SKIP		NX840098
020011 7966 69	EID	92		279	START		SCOORBEN
099003 6890 11	000	98	YUAER	EAA	3.8	BOMPUTE NO. OF ITEMS IN INPUT LIST	NXEAD093
	016	94		STCA	6+2.70		NXBADD94
					0.1	ADDRESS OF TRA	NXEAD095
						AUBUER	MXBA0099
	-					to Anguar an Even no	NXEADD9#
						NA - DU NAY BEAR WOL	NXCA0098
000104 2870 00	810					INITIAL PTE ARGUMENT LOAD INSTRUCTIONS	NXCADO99
080056 7370 88	610					Survices To mush Car Ford 143180011049	NXSAULOS
		182				RIRST ARGUMENT	NXBAG198
080033 7320 76	010	203		8768	0+6,70	RORMAY ADDRESS	NXEAG183
026000791908	930	184		EACH	, FEDD, (PIVELOO)		NXBADIOS
000100020800	010	179.14				THE CASE OF THE CA	
049002040000	009					Part of the Control o	
000003 2490 13	906	185	TNST1	ELDA	3,3	RIRBY ARRAY	NXCA0105
080004 2860 13	900	186		LDe	4,3	MO, OF ELFHENTS	NX84019\$
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040000703000		142		CALL	FRTH.		MXGA0138
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			AB1 611	1 5-6	10 mm	day - Canalus - Canal	
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	900	182	PIVE	PB6	4.5		NXBA0128
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LATERALS

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124 SND

114 IS THE NEXY AVAILABLE LECATION:

GHAP VERBSON/ASSEMBLY DATES JMPA 090172/052571 JMPC 050172/058571

THERE WERE NO WARNING FLASS IN THE ANOVE ASSEMBLY

57906 03	89-25-72	18,46	9	SINT	ROUPIN	FET	COES T	<b>构图 NEX</b>	CARD	MAGE	
BCTAL	SAMBBE	REFEREN	SES SA	ALTER	NOT						
74	EDUSM	513	\$8	213			-				
100	EGAIN	327	111	117							
76	BUFRE	112	90	219							
105	WIAE	223	204	323							
31	BORND	8.8	80	88							
62	\$ NPU \$	109	167	200	169						
104	SHSERY	122	190	221							
56	SNSTE	109	301	205	210	229	128				
107	\$E,L\$,		72	85	200	209	128				
2	FRUD.		104								
3	FRTU.		382								
4	AFSLT.		109								
0	HXCARD	78	72	86	228						
1	₩ DÜHE		85								
36	READY	93	27	97							
30	SKIP	89	87	91							
11	STARY	74	74	92							
22	970P F HORDS OF	REMORY	78	83	99			SEHBLY			

SHUBB . 49982 VELSALAR	8 8 04, REPORT COME . F4, ASCORD COUNT . 00890	
67998 06 09-23-72 20,498	PROGRAM TO GIVE HENTY DAY, YEAR OF PRESENT DRY	
PREFAGE		
<b>PRG機能品的 製物態的民 2</b> 更		
A CESMA BIAN 2		
BATHERA SANDEL ENLUA		
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78237 01 02-05-73 21.723 PRO	GRAN TO GIVE MONTH, DAY, YEAR OF PRESENT DAY	
	2 ************************************	DATE0001
	3 6	DATE0003
	5 . PROGRAM IDENTIFICATION	DATEGOOS
	# PROGRAM TITLE - DATE  DENNIS MELVIN	DATEGOOD DATEGOOD
	10 • COMPUTER REJUINED = GE 625 11 • PROGRAM LANGUAGE = GMAP	DATEOO1
	13 • PURPOSE	DATEOU1:
	16 . DATE RECORDS THE CURRENT DATE AS STORED WITHIN THE	DATEOU1
	10 • COMRITER SYSTEM.	DATEGO1
	18 • THIS POUTIVE FETCHES THE DATE BY USING THE MASTER MODE	DATEOO1
	22 . ENTRY INSTRUCTION - GETIME - THE DATE IS THEN PROPERLY 22 . FORMATTED FOR THE PLOY ROUTINES FOR PROGRAM 1.1.1615,	DATE002
	23 • BIC41430#,	DATE002
**	23 • INPUI YOU SET IEND CALL DITE (TODAY) WHERE	DATE002
	27 • CALLING SEDJENCECALL DATE(TODAY) WHERE 28 • TODAY = THE PROPERLY FORMATTED CURRENT DATE, TODAY IS OF 29 • DIMENSION 2.	DATE 002
	30 a DIMENSION 2. 31 ******END OF DISUMENTATION COMMENT CARDS************************************	DATE0030
-	32 * 33 _BL DATE	DATE003
78237 01 02-05-73 24.723 PR2	YAQ TO GIVE WONTH, DAY, YAQ, HTHOP SVID CT PAPE	
78237 04 08-09-73 241723 110	35	DATE0035
0 10002 500,00 000 00 000	30 DATE SAVE 3	DATE0037
00.001 00.047167 010 00.002 00.0022303 00 00.003 00.0246300 010		4.4
164004 2041247540.0 U10		
00.006 60002743C. 010 00007 006 21 C01, 03 000	38 4ME 35TIME GET THE DATE 39 ERS 12	DATEOUS
000010 600014 733 00 000 000011 60006 732 60 600	*U 3RS 6	DATE003
000°12 610°0° 276, 03 000 000°13 00 14 733, 00 000 000014 000 6 732, 00 000	61 393 63617070.DU 62 LRS 12 63 395 5	DATEGO4
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303717 09:26 276 50 310 300720 00002 0235 31 000	46 JRG • 3707; 20232020	DATEO04
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104034 604.4004460°, A00	Proceedings (1.7) (Phone I constitute of Professional State (1.6) (a.) second	
020029 24416325232: 000		

LITERALS	
300026 C00020202020 000 51 END	DATE0051
27 IS THE NEXT AVAILABLE LUCATION.	
GHAP VERSION/ASSEMBLY DATES JMPA 110171/102971 JMPB 110171/102971 JMPC 110171/102971 THERE WERE 1 WARNING FLASS IN THE ABOVE ASSEMBLY	n. Fe as
ON PAGE NO.	
7905 04 09-25-72 25,452 PROGRAM TO GEVE MUNTH, DAY, YEAR OF PRESENT DAY UTAL SYMPSIL REFERENCES BY ALTER NO.	
0 DATE 89 57 50	
21 GETIME 58	
23 55,12. 37	
* 18185 WORDS OF MEMORY WERE USED BY GMAP FOR THIS ASSAULT	

ZMUME	a 679ga, /		6 05, R	REPORT CODE = F4, RECERD EGUNT = 00487		
67906 09	09-25-72	18,574	1972 EF	PUEHERIS		
- 1	CURFE	1992	ENEMENT	DATA	1	
3	ŝ!	BEUDATHE	TABLE	DATA	2	
3	01	KENSION S	ABUN (38	P) DCBUN (367), RSUN (369) DATA DATA DATA	3	
5	D?	MENSION X	R#AY (294	(6)		
7		USAS PREE		ARRAYS. (DESUN, ABRAY (370)) (RSUN. ARRAY (789))		
8	n (	BOIAVURUCE	# RAMOON	Nearray(4208)) # (DCMDBM,ABBAY(4477))		
1.0	E 6	301V単C数をC型の表別ので	ARMOON	m A R R A Y (1844) )		
21	Υ (	14. 章 本情界異	Y			
12		2) + ARRE				5
14	Y (	4) + ARRX	Y(103)			4
16		TURN TA BRASUM	dilain	19 86)/ DATA	6	5
17	\$1	4,870577	98 00,	4,8998712E 007 4,91814398 601 4,93489508 60. DATA	7	-
18	13	5 6 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		4.9728166E 00# N.9989859E 60% 5.0111286E 60% DATA 5.049303PE 00# \$.0663409E 60% 5.0878392E 60% DATA	8	
20	84	5,200698	£ 00.	5,12921768 00V 5,14808988 604 5,16291868 604 DATA	10	
21	15 16	\$1281700 \$1297023		5,26645 36 000 5,2171568 001 5,23774028 000 DATA 5,27424588 064 5,2953158 001 5731172238 000 DATA	11	
23	\$7	5.780075	7E 00.	5,5463679E 00 5,3666036E 80 5,38478838 60. DATA	12	
24	18	5 002877	35 00.	5.42695586 000 5.43695388 80% 5.45689858 004 DATA 5.49658988 000 5.51835088 80% 5.82885828 807 DATA	14	
26	D/	YA BRABUA	(Ilais	877 72)/ DATA	16	6
27	21 ?2	5,85599	05 00.	5,56201ME DOY 5,5650,990 GG 5,5952807E DO DATA 5,688053ME DOF 5,6593550E GG 5,6676029E DO DATA	17	
29	23	5:684795	25 00.	5,7649888E 000 \$,7190124E 804 5,7360497E 00: DATA	18	
30	24 25	5; 93815 5; 828397		5,7699379E 00F 5,7058086E 60% 5,8036280E 00. DATA 5,8391177E 00F 5,8537898E 60% 5,8704190E 60% DATA	20	
32	26	5,886994	36 00.	5,9635299E 088 \$,9290209E 60. 579528798E 00. DATA	21	
33	27 28	5 969250 6 1 834381		5,98558582 084 8,80888378 80% 6,91814868 00. DATA	23	
35	29	6: 699821	5E 00.	6,1555835E 08	24	
36 37	31	474 FRABUA 6,253268		737188)/ DATA 6,17927308 001 6,19226328 801 6,21123838 000 DATA	26 27	6
38	35	6:227193	7E 00.	6,2481365E 00% 8,2590661E 001 6,27498888 801 DATA	28	
40	33	7,705202		8.38624486-02# 9.94913768-02. 5753739476-02. DAYA 6.71246056-02# 2.0299614E-01. 1.88867848-01. DAYA	29 30	
41	35	1:347402	8E-01.	1.3651639E-019 2.6649739E-616 1.8238495E-616 DATA	31	
42	36	11982908		#:14+8644E=01F 2:3010349E=612 2:4603382E=610 DATA #:77F3749E=61F 2:93F1427E=611 3:99F0F21E=611 DATA	32	
44	38	3,257237	36-04.	8,4195879E-017 8,5881548E-01, 3,7409490E-61, DATA	34	
45	39 D4	31901781		0.8002619E-01 #.2267962E-61 4:3865922E-61 DATA	35	6
47	41	4,944658	38-011	4.74899478-047 4.873642588641 5483652458-81. DATA	36	0
48	43	5,89773		5.3682580E-01V 5,52110188-61; 5769127428-016 DATA	38	
50	44	6 : 517484	3E-01.	6,68985968-01 #.85842898-61 7:61780678-61 DATA	40	
51 52	45	7 289382	SE OF	7,3933756E-01 7,5217868E-01 7,69062608-01 DATA	41	
53	47	87941221	7E-01.	8,7126029E001F 4,8564827###1. 918566511#-61. DAYA	42	-
54 55	49	9;229298		9,4623566E-01F 9,5727702E-612 9,2495916E-016 DATA 5,8698374E 08F 2,9223329E 602 128448654E 00/ DATA	44 45	
56	DA	ATA ERABUS	(I)alat	1497180)/ DATA	46	6
57	\$1 \$2	1 283862	46 00.	4.8 80397E 08 2.8976802E 50 175153555 00 DATA 6.1588085E 08 2.1685842E 80 1.6865929E 00 DATA	47	
59	73	1 20 4230	56 00 a	8,22009908 00 4,23999668 60% 1725792478 006 DATA	49	
60	5 4 5 5	1,875875	75 00.	1,29385128 06 1,31185398 400 1,32987858 006 DATA	50	
62	56	11429282	25 00.	4,3849494 087 4,38607228 605 1:40257568 001 DAYA	51 52	
63	97 98	1,9492926	1 00.	4,3249679E 00F 2,3271478E 608 1754726X8E 008 DATA	53 54	
65	99	1,487969	25 00.	6.69405888 00 4.67419888 406 1/49229938 30/ DATA	55	
66	D/ 61	1,720379		DATA DATA	56 57	6
68	92	11782555	95 00.	6,86655698 007 4,81852688 001 1,83647778 801 DATA	58	
89	93	1.454709	05 00'	4.87231238 00F 8.89818678 00. 1,90863978 00. DATA	59	

70 94 1,7254588 80. 6,94868552 087 6,96838528 801 1,979899		DATA	60	
			10 mm 1 mm	
		DATA	61	
72 66 2,05780238 00, 2,86458328 065 2,10802268 601 27819428	5H 600	DATA	62	
73 67 2,28677538 00. 8,45408788 089 2,57535648 003 2,486582	2 0 Ce	DATA	63	
	12 00e	DATA	64	
75 99 2:87405408 00. 8.29202398 000 8.30294738 602 2:324628	DE 80/	DATA	65	
76 DATA BRABUN (1)a1 2879252)/		DATA		4
		The second second second second	66	6
77 71 2.8416668 00. 2.85846388 007 2.87821758 001 2.891729	2 E 00 s	DATA	67	
78 72 2,40657858 00. 2,42522538 000 2,44880978 001 2,458553		DATA	68	
	# 8Qe	DATA	69	
80 74 2;5484446E 00. E,5587436E 000 2;573-0042E 60. 2;58922X	408 84	DATA	70	
		7 Control of the Cont	71	
52 76 2:00903308 00: 2:60983158 00F 2:70582008 00% 2:717788	) E 60e	GATA	72	
83 77 2:73371328 00. 2:74962088 007 2:76590448 GC 2:281365	28 90e	DATA	73	
		The second second		
			74	
85 79 2.6867615H 09: H.8F64472H 008 2.8988904H 00: 2.907569	SE 00/	UATA	75	
DAYA ERABUN (1) 61 a2537286)/		DATA	76	6
			77	•
58 52 2.9857959E 00. 5,869356HE 089 4.9173217E 601 3.832968	800	DATA	78	
89 83 3,64861878 OB: 8,8442995E 000 8,8799079E 804 3,895956			79	
		W1		
			80	
91 95 3.2738900K 00. 5,2895869E 000 8,2092982R 00/ 3.221029		DATA	81	
92 86 3:23677EOR 00: 3,252535HE 000 0,26832048 00: 37264527		_	82	
	806		83	
94 88 3,3639335E 00. 8,3795826E 087 8,3984997E 883 3;411329	@ e0.	DATA	84	
		-	The second second	
	E 60/		85	
96 DATA SHABUN (1)41m2899384)/		DATA	86	6
97 91 3,09220018 00. 3,50844738 000 3,52473488 00% 3,541068	E 00.	DATA	87	
OD OF THE PROPERTY AND			88	
			-	
99 93 3,02338268 09. 3.63999028 089 8,65865058 001 3,673868	100 m	DATA	39	
100 94 3,89913168 00. 8,76695420 00 8,72383358 602 3,240769	8 09 è	DATA	90	
			91	
102 96 3,86632798 00. 8,84861988 00# 8,86699198 602 31878388	E gg.	DATA	92	
103 97 3,8955586E 00: \$,9133939E 08F 8,9389901E 602 3,94864E	E 00.	DATA	93	
		DATA	94	
105 99 4,95763At& DD. 4,8588559E 087 4,875933AE 80% 47892879	5 8 80#	DAYA	95	
106 DATA SRABUN (ITAL 3859360)/				
		DATA	96	0
107 201 4.0102643E 00. 4.1289214E 005 9.1448352E 001 4.65201	400 BS	DATA	97	
108 402 4,28363718 00. 4,2621238E 000 4,2284665E 001 4,239268			98	
109 103 4,29791398 00. 4,27662052 067 4,29539678 601 4,314183			99	
		_		
110 104 4 4 83 63 74 E GO. 6 39 49 38 8 E GOV 4 37 8 6 5 9 E GOV 4 3 2 6 9 8 7 8	) # 60 i	DATA	200	
111 205 4,4089038E 00, 6,4299722E 089 4,442076FE 602 4,466215	804	DATA	101	
112 606 4,48930588 00. 4,56458588 089 8,52381148 684 4,543662				
113 107 4,98236448 00. 4,98262688 008 4,60093648 00. 4,620262		DATA	302	
114 108 4:6398008 00: 6,69899088 00V 4,67830928 003 4,597678	18 60%	DATA	104	
115 609 4171784838 00: 4:738486BB 888 8:75878648 807 4:375258				
TAY MAN ANNIEL LANGUAGE DE MILLEL AND	00/			
116 DAYA \$RASUN (17-1-3019588)/		DATA	100	9
117	SE 80.			
				- 1
119 DATA (DESUN (1701m 17 85)/ 129 £21 -4.64257868-014.83834638-018 -8.01868		DATA		6
129	Ennia	DATA	109	
122 123 -3, V6755498-018, 88479898-067 -8, 86876578-414 -3, 835467				
123	B-617	DATA	112	
124 125 -5:6904960R-015.3998954E-017 -8:6241374H-813 -3:689232				
		DATA		
125 426 -3,99389818-01, -8,91684728-019 -8,47260138-01; -3,436478	124010	DATA		
126 £27 95;39659261905; #8;398666528405\$ #8;35£216884412 #3;270765	1 20 cm	DAYA	115	
127 428 -3,82433884-01, -3,18898788-018 -8,13894498-81, -3,887248				
128 629 -8,95783728=04: -2,98992778=049 -2,93993858-614 -2,889888	8-01/			
129 DATA SDUBUN (1741m BYE 92)/	-	DATA		6
ARO AR DO RETTOTAL DA PRACENCIA DE TRUMBERSE DE TRUMBERSE DE LA PROPERTIE DE TRUMBERSE DE LA PROPERTIE DE LA P		DAMA	4.0	-
130 431 -2,857397;E-01, -2,7848625E-01, -2,7389651E-01; -2,677468	R 4019	DATA		
131 232 -2,4240048-01, -2,50999382-018 -2,51066482-014 -2,453639	R=81 .	DATA	220	
142 43 -2,59992838-01, -8,88999828-017 -2,27899378-018 -2,818934	COASI	DATA		
		DATA		
134 135 -1,91234148-02, -6,44947218-019 -1,78415348-818 -1,22345	-011	DATA	\$23	
135 836 -1:05862788-096:59\$499@E-060 -2:5284788E-013 -1:397838	Beat .	DATA		
136 437 -6,88124828-01, -6,26482828-047 -6,19811378-61, -1:431118				
137 £38 01,6534488E-01, -9,9833998E-02F -9,28884422* -8,606254	10-024	DATA	126	
137 £38 01,66364488-01, 07,76838988-027 -9,288844120624 08,606254			\$5/	
ded have saddling it is supported to the same and the sam		-		
139 DATA 1008WN (1) 1 987468)/		DATA	759	6
140 441 05,48\$4199\$002, -4,494794\$B002\$ -\$,80\$69178002\$ -3,41600\$	182.	DAMA	429	
	9 20 La 20 40 50 50	UATA		
161 650 mp. 8959267EmB2. ms 738444 EmBob -4 04894068mac7:58044E	B-03	DATA	420	
141 542 02,92592575002. 06,735645580025 06,945340580025 03,652518	E-63.	DATA	130	
141	8=83. 8=824	DATA DATA	130 131	

143	17976665-02	6,45871368-621	5, 5381296E-626	DATA 1	32
		7,17854248m821	7:44982878=02.	DATA \$	33
		9,85867878×624	1:05230938-01.	DATA 1	34
146 447 higg#45338=01.	18428288=01	2124978068-611	1:31492798"01/	DATA &	35
147 148 189971568-01	4,44413BE-01F	8,50011198-611	1157169246=611	DATA 2	36
		#: 759745##-013	1:82147858-61/	DATA 1	37
149 DAYA EDGSUN (I) el = 1		4.			38 6
		2,00356988-612	2.06337418-01.	DATA 1	39
151 652 2;12221838-01.	1.1886679E-048	2:23051840-01:	2,29575298=61a	DATA \$	40
152 453 2,8523566 -01,	46631588=014	2,46561378-61	2191823198=011	DATA 1	41
	1.6894046E-04F	2;6779167E-017	2,72969962=01.	DATA 1	42
	2.838993XE-013	2.88948078-616	2,92917848-01	DATA 2	43
	5,0241239E-01	3,0783309E-011	3,11569688-011	DATA 1	44
	2687868E-010	8;24449288=81a	3,28828\$28=01;	DATA 1	45
	3,3690715E-015	8,408088#E~914	3,44683756=01;	DATA 1	46
158 159 3,48365506-01.		\$,55809988~611	3.58810808-61/		47
	457±80)/			DATA 1	
	65892048-013	3,68491342-81	3,71374888-01.	DATA 1	49
161 462 3,74251688-01.		3,79681278-01,	3,82232178-01.	DATA 1	50
	87801556-01	3;8981820E-01;	3;91321478=01;	_	51
		3 969449 E-01.	3,9858780E=61.	_	52
164 165 4,6011390E-01.	91922628-05#	4,02813628w614	4.03986818-01.	DATA 1	
	05975268-016	4.061308958079	4.0748671E-n1.		54
		育, 98894462901;	4.09070202-01.		55
		4,08996288-01	4.08731878-01.	DATA 1	
	9.9784868E=01*	4,0722064EH012	4:96478598=01/		
169 PAYA EDGSUN (I) 61 al		Alaxer. 200	4	DATA 1	
170 \$71 4.5568784E-01.	9493864E=011	4 03541328-61	4,02326278=01		59
	9954455E=04	3,97978972-01	3,96297488-61	DATA 1	
		3,9096711E-01.	3;8843043#=01: 3;48779#1#=01:	DATA 1	A
		2.7040814E=61	3.67407348=01.		62
	20 · 10 · 10 · 10 · 10 · 10 · 10 · 10 ·				63
그들다 프로그 프로드 프로드리를 공유하면 그림과	47275868-01	3,573901980013 3,43577368-013	3754383#8#=01: 3739783#3#=01:	DATA 1	
	31717126-01	3,2784618E-011	3,23685948-01.		66
		7,10478508-01	3,06164998-01/	DATA 1	
179 DAYA FDUBUN (1761.2			0,40204,72002,		68 6
	968977gE-049	2:92542858-012 2:72556498-012	2:47309824-01.	DATA .	69
	7741132E-018	2.72350408=014	2.672160900010		70
	36738518-01F	8,9139672E-612	2,45963428#61+		71
183 284 2.40515446-01.	**	£ 29\$82392=014	2:23724458-01	7	72
184 185 2:2800Ch7E-01.	1122353bE-010	2.064065\$B=613	2,80523738-010	DATA 1	
185 186 1,94588348-01.	,8880171E-01F	8,82565198-010	1,76480198-81.		74
186 187 1,76397975-01,	1,6417888E-01F	4.57947888-613	1,51682958-01.	DATA 1	75
187 188 1,45376758-01.	39\$310BE-C1	2,3264937E-61.	1 126227948-01.	DATA 2	76
188 189 1:2977318E-01.	1.13285982-01	2,067676##-61A	1,80219628-01/	DATA 1	77
189 DAYA EDCBUN (I) . I = 2	37288)/			DATA 1	
190 191 9,86442378-02.	7042538E-02)	4:0486376E-024	7,37674295-02.		
		5,37005092-02.	4,69769898-020		
		2 67254792-02	1799583678=02:		_
		8,06470942-64	=7,20267405-03.	DATA 1	
	1,98867568-027		-3.4396078B=62.	DATA 1	
		\$14725542E-62	=6,45296¶08-62+	DATA 2	
		4,1762396E=02	-8.84775298-621	DATA 2	
	1,8185021E-017 -		-1,1513486Em61.	DATA 1	
198 199 =1,21738566+01; =	1 Kod7 10 BEa0 24	2.34441998-01.	-1.41377828-81/	DATA &	
200 201 =1,4785939E=01, =		A' AATI 44 48-44	-1 47097659 44	DATA 1	
201 202 =1,7341720E-01, =		1,6071611E-614 2,8594829E-614	=1.67087858=81. =1.92145768=81.	DATA 1	
202 203 -1,98295528-01, -		£ 10444988-61		DATA &	
203 294 -2,223\$2525=01, -		2;3489130E-01	-2,16440918-01. -2,3985540E-61.	DATA 2	
204 205 -2,4555647E-01, -	. 5459242Emn44 -	5 29897598-01	-2,62260878-01.	DATA 1	
205 266 -2,4748928E-03, -	73844468-017 -	9.783244¢E=84	-2.83527888-61.	DATA 1	
205 266 =2.0708928E=01, = 206 267 =2.5865046E=01, =	.93692548-011 -	2,7832445E-614 2,9855136E-614	=3:03524V0E-01.	DATA &	
	1.1300833E-010 -	3,1781436E-017	=3,2212736E-01+	DATA 2	
208 209 -3,2654542E-01, -	3.3086681E-017 -	3.8508975E-617	=3,3921253E-61/	DATA 2	
209 DATA ADCSUN (11.1.3	257366)/			DATA 2	
210 211 =3,43238442=01, =	5.4745084E-018 -	3;5096309E-01:	-3:54668\$0E-01.	DATA #	99
211 212 -3,9824558E-01	- 41755026a011	8,6582667E4611	-3,48387#5E-61,	DATA &	
		W. T. M. M. A. M. A. M	0-040878	DATE .	01
212 213 -3,71735368-01		8,77478498-014	-3.40262478-61.		
213 214 -3142931988-01. =	6,850783380038 -	8,8790077E-817	-3.9019746E-61	DATA 2	02
	5,6507833200127 5,94411522-015	8,965258@E-81	-3.90197868-61; -3.96110808-01;	DATA 2	02

```
-4:09099928E-01: -6:0604402E-01F -8:0689729E-01: -4:0761505E-01: DATA 205-01:051972E-01: -6:0864308E-01F -8:0899269E-01: -4:0912577E-01: DATA 206-01:05162098-01: -4:0844983E-01: DATA 207
216
217
                218
218
                                                                                                           BATA 208
219
                    DATA
                          EDCSUN (170128617368)/
                      -4.677877(E-0g: -4.0768728E-04: -8.6680424E+04: -4.0558296E-04.
                      -6.6798774E-05.
                                                                                                                 209
220
                                                                                                           DATE
                                                                                                           DATA
221
                                            17 86)/
9,8348159E-017
                    DATA ENSUM (I) II
323
                                                                                                           DATA 210
                231
                        9.8389952E=01.
                                                                  9:8387979E-011
                                                                                       9,83866298-015
223
                                                                                                           DATA 211
                                                                  9,8389844E-611
9,8400199E-611
                        9:8598508-01.
                                             9.8396632E-01F
224
                212
                                                                                       9,43910428-61.
                                                                                                           DATA 212
225
                233
                                                                                       9184042848-011 DATA 213
                                                                  9 84889888-612
9 84840698-812
9 84850698-612
                                              8443649E-01#
226
                234
                        9:4488726E-01.
                                             9
                                                                                       9.84247978-01. DATA 214
                                              843725#E-017
846672$E-019
                235
                        9;8430804E=01.
227
                                             9
                                                                                       9184512858-81
                                                                                                          DATA 215
                        9.84587998-01.
                                                                                       9.848885E=01. DATA 216
228
                235
                                             9,8582856E-01F
                                                                  9.8553130E-01;
9.8559968E-01;
229
                237
                        9; 8498095E=04.
                                                                                       9,85259998-01.
                                                                                                           DATA 217
230
                238
                        9;8535380E=01.
                                                                                       9.45731876-01. DATA 218
                239
                        7,85889188-01.
                                             9.8691268E-017
231
                                                                                       9:8631624E-81/ DATA 219
                                                                  9.8656178E-012
                    DATA $RSUN (1) 61 877 72)/
9.8647586E-01 9.8664004E-01)
                                                                                                           DATA 220
DATA 221
232
                                                                  9:86#0897#=61a
9:87#2490#=01%
9:88#9067#=61%
                                                                                       9,86982238=01
233
                                                                                                           DAYA
                241
                                              .8784049E-017
                242
                        9.8719949E=01.
                                                                                       9:87712898-01:
234
                                                                                                           DATA 222
                                              .88999478-015
.8889978-015
                        9:47952898-08;
9:46687938-01;
9:4791888-01;
                243
235
                                                                                       9188488278=01.
                                                                                                           DATA
                                                                                                                 853
                                                                  9.89093892-01.
9.89939052#611
                244
                                                                                       9,89300878-01; DATA 224
9,90158978-01; DATA 225
236
                245
237
                                                                  9,90840848-61
                246
                        9,9088190E-01:
                                                                                       9:91316848-01; DATA 226
238
                                             9,96609358-017
                247
                        9,9155979E-01.
                                             9,91807458-018
9,9283369E-017
                                                                  9,9295898E-014
9,9389993E-014
                                                                                       9: 92313898-61. DATA 227
239
                24B
240
                                                                                       7,9336458E-61. DATA 228
                   9:9563870E=04:
DAYA RESON (1)41:
241
                249
                                              :9390457E-01
                                                                  9:94176988-613
                                                                                       9:94450868-61#
                                                                                                           DATA 229
242
                                             757288)/
9,949993#E=04:
                                                                                                           DATA 230
                231
                        9,9472459E-01.
                                                                  9:9527435E-01,
9:9637358E-01,
243
                                                                                       9,95549418-01: DATA 831
244
                        9,9382414E-01.
                                             9,9699882E=019
                                                                                       9:96648$96=81; DATA 232
                                                                  9:97476922-014
                        9,9892398E=04.
                                                                                       9:97754738-01/ DATA 233
245
                293
                                             9.9728004E=01
                                                                  9 98 97758-012
                        9:9803439E-01.
                                             9.9881535E=01*
9.9945486E=01*
246
                254
                                                                                       9:98881@18-01. DATA 234
                        9.9916755%=01,
1.6005253% 00,
1.6014988 00.
                255
247
                                                                  9 99 843648-014
                                                                                       1.00003398 00: DATA 235
248
                                             1.0016172E 001
                                                                  2 0080863E 004
                                                                                       1:00120478 00. DATA 236
249
                257
                                                                                       1:0023790E 00. DATA 237
                                                                  1:0032487E 004
2:0043767E 004
                258
                                             1.882960$E 00*
250
                        1:5026705E 00.
                                                                                       1,90353#6E 00.
                                                                                                           DATA 238
251
                        1 . 0038178E 00.
                                             4.8640985E 00
                                                                                       1100465248 00/
                                                                                                           DATA 239
252
                          FRSUN
                                   (I)al=
                                            1897144)/
                                                                                                           DATA 240
                                             4.065196BE
                                                                  1.0054659E 001
253
                261
                        1.6049257E 00.
                                                          089
                                                                                       1 . 90573448 00+
                                                                                                           DATA 241
                                                                  2,0045284E 60:
2,0075747E 80:
                        1:0059996E 00.
                                             8,9662646E
254
                262
                                                                                       1:8067912E 00.
                                                                                                           DATA 242
                                                          000
                                             1,007314#E 00*
255
                263
                        1.00705338 00.
                                                                                       1.80783628 00.
                                                                                                           DATA 843
256
                254
                        1.6080927E 00.
                                             1.0063502E 067
                                                                                       1:80886238 00. DATA 244
                                                                    90860642 80%
                                             1,0193661E 00*
297
                        1.0091146E DO.
                                                                  2,8096154E 00.
                                                                                       1.9098620E 00. DATA 245
                205
                266
                        1.0101059E 00:
                                                                  1,01958358 007
258
                                                                                       1.01001458 00. DATA 246
                                             1.0112689E 08*
259
                        1 0110449E 00"
                257
                                                                  $ 0154882E 80.
                                                                                       1:01170898 00: DATA 247
                                             1.8128992E 007
                        1.6119128E 00.
                                     00.
                                                                  1.01831988 00.
1.0130862E 00.
                                                                                       1:01291648 00: DATA 248
1:01326958 00/ DATA 249
                268
260
                269
261
                       A LRSUN (17+1=1457186)/
2:6134560E 98/ 6:8143105E 08/
1:6141438E 08/ 6:8143105E 08/
262
                    DATA
                                                                                                           DATA 250
263
                271
                                                                  1 0138028E 001
                                                                                       1.8139784E 00.
                                                                                                           DATA 251
264
                                                                                                           DATA 252
                273
                        1:9147943E 00.
                                             1,014949$E 00*
265
                                                                  $ 01$10142 00è
                                                                                       1.91524768 001
                                                                                                           DATA 253
                                             1.0155641E
                        1:0153940E
                                                                  1.0156695E 004
2.0161574E 004
                                                                                       1,81579788 064 DATA 254
1,81626898 00. DATA 255
266
                274
                                     00.
                                                           00
                                                           001
                        1,6163681E 00.
1,6167139E 00.
1,6169859E 00.
                                                                  1.01655112 004
2.0165668 004
1.01708878 904
                                                           00
                                             1,8164612E
                                                                                       1.0166351E 00.
268
                276
                                                                                                           DATA 256
                                             1,01678712 007
1,01703688 007
269
                277
                                                                                                           DATA 257
                                                                                                     004
                278
                                                                                       1.81713898 00. DATA 258
270
                279
                        1.0171824E 00.
                                                                  1.0122598E 801
271
                                             1.819222#E 00"
                                                                                       1 . 91729888
                                                                                                           DATA 259
                                                                                                     80/
272
                    DATA LESUN
                                             817216)/
8.0173512E 009
                                                                                                           DATA 260
                281
                                                                  1:0173748E 00;
                                                                                       1:01739#28 004
273
                        1.6173245E 00.
                                                                                                           DATA 261
                                            6,0174208E 007
1,0174138E 007
6,8173117E 007
                        1,0174076E 00.
1,0174235E 00.
1,01734865 00.
                282
283
                                                                  1:0174268E 001
                                                                                       1701742798
274
                                                                                                     004
                                                                                                           BATA
                                                                                                                 262
275
                                                                                                           DATA
                                                                                                     00.
                                                                                                                 263
276
                284
                                                                                       1:01722888 004
                                                                    01227078 904
                                                                                                           DATA 264
                        1,61717108 00.
1,61690896 00.
                                             1.81711258 001
1.81682982 000
                285
                                                                  2 0170498E 501
277
                                                                                       1191698632 00.
                                                                                                           DATA 265
278
                                                                                       1.81666978 00. DATA 266
                        1,61657888 00.
1,6161728 00.
1,61573508 00.
                                             6,8164773E 000
                                                                  2 014380$# 80a
                                                                                       1:01620048 00 DATA 267
279
                247
                                                                  1 01296168 00.
280
                248
                                             4.8160710E 08P
                289
                                             1.8196234E 00*
                                                                  1:0124902E 601
281
                                                                                       1 : 81586268 00/
                                                                                                           DATA 269
                                    41101
282
                          BRSUN
                                                                                                           DATA 270
                                            24772921/
                        1,9198386E 00,
1,919889E 00,
1,9139889E 00,
                                             4.8150938E 08V
283
                891
                                                                  £ 01495212 GO.
                                                                                       1:01480918 004
                                                                                                           DATA 271
                                      00.
                892
893
                                             1.6144948E 00.
8.8288105E 005
                                                                                       1:0141627E 00.
1:0134364E 00.
284
                                                                  1,01636138 60±
                                                                                                           DATA 272
285
                                                                                                          DATA 273
286
                294
                                                                  8.0148909E 80%
                                             8.91305018 00V
                                                                                       1;91264128 80; DATA 274
                                             4.8122822E
                                                                  2,0120204E 001
                                                                                       1.01180728 00.
1.01093868 00.
287
                        1,01244115 00.
                                                           000
                                                                                                           DATA
                                                                                004
288
                                                                                                           DATA
```

289	297	1 #187122E 00.	4,0494888 00° 4,06956758 067	2 91 92 51 9 H 60 8 9 0 9 3 50 9 H 60 4	1:01003298 00%	DATA 278	
291 292	299 DAT	1:0008456E 00.	4.0005976E 00V	2.0043464E 00I	1,00889138 00/	DATA 279	
293	301	1,40783278 80.	£, 8695704E 00:	1,0023054E 00i	1:88783718 606	DATA 281	
294	902	1:0067680E 00.	1.98649258 00*	8,80 \$216 \$ 801 8,80 \$0 \$0 \$8 8 60.	1,90593728 094	DATA 282	
295		8160865998 00.	8.88837988 08V	2. 20 20 98 2H 60 .	1,0045,418 605	DATA 283	
296		4 . 66 483 8 0 E 00 .	1,0642519E 00F	\$ ,003990 BE 00	1,00348468 00.	DATA 884	
297 298		1160340388 00.	1:0681278E 00	9 00 9 6 4 7 9 6 60	1100256198 000	DATA 285	
244		1,6022541E 00.	2,0020088E 00°	2,00572758 00% 2,00859578 00%	1,90144828 607	DATA 286	
300	308	1.0000237E 00	9.99934328-04	9,9944504E-81	9799194938-81	DATA 288	
301	309	9; 9886348E=04.	9.98572458-017	9,98280798-01.	9197989868-61/	DATA 289	
302	DAY	A BREUN (1) alas	899394)/		4	DATA 290	6
303		9: 779778 E-01.	9,97407188-013	9,97117500-011	9196829278-010	DATA 291	
304	882	9.9654273R=01.	9,96298242-01	9,99976248=01	9795696952-013	DATA 892	
305	3 3	9 95429848-01	9,9547678-01	9,94977488=614	9794610358-01	DATA 293	
50 <b>6</b> 507	844	9;94345696=04.	9.94883888-01	9.93624288-61	9793566718=61.	DATA 294	
308	\$15 \$16	9.9535090H=01. 9.9236295E=01.	9,9365674E=018	9,92804128-012 9,91807018-61	9:92552908=61: 9:9156169E-61:	DATA 295	
309	817	9 9131685E-04"	9,91673838-01	9.9083284#=61	9,90593798-014	DATA 297	
310	828	9;903\$696E=01.	9,984226\$E-01*	9,89891198-01	9,89642898-014	DATA 298	
311		9,89438624-01.	9.898170#E=01#	9,89800328-614	9,88788228-31/		
312	DAT	A ERSUN (1) A 1 = 3	297360)/			DATA 300	6
13	821 822	9,88581268-01.	9,88879378-019	9.8818264E=01	9,87991408-011	DATA 301	
314 319		9,8986493E-01.	9.8762876E=060	9,87847378401	9,87275908-61	DATA 302	
316	823 824	9,8547584E=01.	9.86944138-01	9.86784312-01	9;86628268=61;	DATA 303	
317	325	9:0509774E-01.	9,8682619E-01# 9,8596142E-01#	9:8648007E-01: 9:854285@E-01:	9:86037#0@=d17 9:85499638=016	DATA 364	
318	326	9,4539354E=01.	9,85850838=01	P. 8543264#=01	9.85018898=01	DATA 305	
319	827	9.8498917E=01.	9,84804552=01	9,84705148-01	9:84621848-814	DATA 307	
320	828	9 . 8452372E-01.	9,8444217E-01*	9,84366998-913	9,84298218-01	DATA 308	
321	\$29	9,8423626E=01.	9.8448072E=01F	9.8433145E-01.	9,84088218-61/	DATA 309	
322		A GRSUN (1901=2	3617368)/			DATA 310	6
323	331	9,8409052E-03,	9,8491844E=019	9,83991698=61,	9,83969168-01.	DATA 311	
324 325		9:8899257E-01.	9.8393995E-01)	9;839316\$8=01;	9,83927938=61/	DATA 312	
326	841	A PRAMOUN(1) . I = 1.5246239E 00.	17 46)/	2:0498054E 80.	2 20642608 44	DATA 312	6
327	342	1:52452398 00. 2:5046756E 80.	1,794889%E 082 2,7888066E 082	2,0478054E 00:	2,2861219# 00a 3,09173#5# 00a	DATA 313	
328	843	3,2797720€ 00.	3.4723814E 000	8,678489@# 8Q.	3,48032298 80.	DATA 515	
329	344	4, 1028352E 00.	4,33995512 086	4,58802218 60.	4,83304238 00.	DATA 316	
330	845	5.6828827E 00.	5,52525996 00*	5,5691660E 00.	5, 28716998 00.	DATA 317	
331	346	6,0088512E 00.	6,2291861E 00F	\$,69\$830\$E=01.	4,91094878-81.	DATA 518	
332	347	6,9375491E-01.	8,99201648=01	8,1652270E 001	1 43589128 60.	D' TA 319	
333	348	1.70295735 00.	1,9588612E 000	S 1 7 A 1 9 \ BE 80 *	2.42312548 00.		
334 335	349	2:0327525E 00: A (RAMODN(I):18	2.8345705E 08	4.05248648 80º	3721329898 00/		
336	351	3.4644655E 00.	571 721/ 5.6009600E 00:	3:80405548 80.	4.02212818 00.	DATA 322	6
37		4,2300600K 00.	4,4887000E 000	#:7386768# 001	4.98313478 001		
338	393	\$ 1 82 9 24 5 8 E UD'	5,4697456E 004	\$,7037694E 607	5,93275252 007	DATA 325	
339		6,25979865 00.	6.8372248E-01*	8,4098631E-011		DATA 326	
340		8,4098438E-01.	1,10510928 007	#;3730312E GOZ	1,43792808 000	DATA 327	
141		1,8918400E 00.	8,1348113E 00*	2,5544840E 006	2,76779852 004	DATA 328	
342		219612192E 00.	3,1545685E 00*	3,3425637E 601	375376499E 001		
543 544		3.7598096E 00. 4.6434954E 00.	3.9562646E 08*	#1173047## #01 #112#4981# #01	4.4049783E 00.	DATA 330	
349		A FRAMODN(I) . Is	7371981/	41754-30ft 909	319013474E 081	DATA 331 DATA 332	6
46		5, 6022146E 00.	5,8583839E 001	6:96\$62348 00:	1,34089188-026		_
347		2.98064525-04.	5,02659198-011	7.6347119E-611	1/83393978 00.	DATA 334	
348	363	1.8072736E 00.	4,976890X8 007	4.83\$1684E 804	2107780902 604	DATA 335	
49		2,8040152E 00.	2,5156558E 00#	2,7140638E 60Z	219091295# 001	DATA 336	
350		3.09897156 00.	3,2887805E 08	\$,488382\$E 001	3,48258532 001	DATA 337	
351		3,8914016E 00.	4,10972392 009	9,33692198 607	4,97076238 800	DATA 338	
352 353		4,5078445E 05.	5,6445753E 00F	9:27627388 60%	5150794958 004	DATA 339	
354		3,9182332E-01	5,9889475E 089 6,9485993E-019	9,18988248 80. 9,29836498481	1748430858-011		
355		A BRAHOUN(I) is	BORGATI	41E-400-4E4071	1181212848 60/	DATA 341 DATA 342	4
356	87.	. 9934236F 08	1,7680810E 00	2.0.\$66548 An:	2184980988 004		4
357	371	1,493/236E 06.	8,68379068 08F	2,01866548 801 2,86274748 801	3,05204848 004	DATA 344	
358		3 240#133 00;	3,4327425E 007	3,638960## 60.	3,43774188 001		
359	874	4,8541506E UD.	6,27990186 084	#, 9186972E 80a	4.7468396# 006	DATA 346	
360		4.9818488 CO.	3 2125160E 00F	5,4343914F 60;	574578297E 004		
361	376	5.8757418E 00.	6.9983563E 088	4.83464128-02,	2178935628-011		

362	377 5,32721985 = 1			1:37741838 000 DATA 349	
364	378 1,8885939E	00. 8:05842925 00 P		2140223238 601 DATA 350 3149289208 607 DATA 851	
365	DAYA SRANDENET		41004.054		6
366	\$81 3,3830298E	10: 3.8993738B 088	7:7839449E 00.	3,99836918 000 DATA 353	
367		06. 6.45454488 00V		4;92600098 801 DATA 554	
368	383 5 1576131E	00. 5.88207750 00F		5181518878 000 DATA 355	
370	384 6; 8298252E	00. 0,24677008 00% 04. 0,63469488-04		47387008480017 DATA 856 148883878 000 DATA 857	
371		0. 2,87785328 00		2.53962878 60. DAYA 358	
372		00. 2,94856872 00		3:3274494E 005 DATA 359	
373		00. 3,7252735E 00		4,4590363E 800 DATA 860	
374	389 4;3900095E		#:86#33546 80º	5109990308 60/ DATA 361	
375	DATA TRAMOUNCI		R* 74 XAR 48 60"		6
377	391 5,3286613E	00. 5.5503025E 001		5;97881858 00; DATA 363 6,84186208-01; DATA 364	
378	893 8:6550297E-			1,70395208 00, DATA 365	
379		D. 8.2255469E 000		2,6686926E 60, DATA 366	
380		0. 3,96945378 009	3,2657176E 80%	314595626E 606 DATA 367	
381		0. 8,867620\$E 08		4131619128 001 DATA 368	
382	397 4;5515659E	00. 4,79835718 008 00. 5,76979328 008		5,26182448 00. DATA 369	
384	399 7.857E354E=			6184260858 081 DATA 370 7197894868501/ DATA 571	
385	DATA SRAHOUNGE		\$14584004#-478		6
386		8,8380759E 08	2,6127474E 80,	1.8792675E 000 DATA 373	•
387	902 2:2316042E	00. 2.367614ZE 08	8,58645868 001	2:39729238 004 DATA 374	
388		0. 3,19507978 000		3159260318 000 DATA 375	
389		0. 4.01462112 00		4:46985%3E 50% DATA 376	
391		00. 6.9484426E 08*		5140902868 004 DATA 377 11348748683021 DATA 378	
392	207 2:4758185E			1,80379678 00+ DATA 379	
393		0. 1,54616998 00		216613463E 606 DATA 380	
394	469 2:2973468E	00. 2.31900772 06		2193109998 0Q/ DATA 381	
395	DATA FRAMOUNE I	0 1 = 25372881/	-1		6
396 397		19. 3,3262924E 00		3,83176442 00 DATA 383	
398		00. 4,1645565E 00°		4;\$2352222 00. DATA 384 5;\$448642E 00. DATA 385	
399		9.98942426 00	0,2122400E 00°	114495987E=01/ DATA 386	
400	415 4.6847686F=	01. 6.6468897E-01	9.32473528-01	1,2085791E 004 DATA 387	
401		10. 4,7547565E 00	2,0052050E 602	2.2425944E 001 DATA 388	
402	447 2,4643388E	00. 2,6740150E 08	2,87525648 003	3:97292909 000 DATA \$89	
403		00. 3.4686352E 00°		3,88095228 80. DATA 390 4,28186878 80. DATA 391	
405		1.2891324)/	3139#A83#E 80*		6
406	821 5.0102745E	00. 5.23\$2318E 001	\$;4563g148 00i	5,47468738 00, DATA 393	
467	422 9,4928688E	00. 6,11442888 00	4.042827\$E-024	3.81492838=01. DATA 394	
408	423 5,57458950		111179278 601	1:39787958 60. DATA 395	
409		D. 3,90807288 00	# 12000Aosm a0v	2,41331#5E 00+ DAYA 396	
411		00. 2.827798\$8 00*		3,2183172E 80; DATA 397	
412		0. 4,49915688 00		4:94694458 00. DATA 399	
413	\$28 512693920E	00. 5,3866308E 00	5,39939092 80.	5,81064258 DB DATA 400	
414		00. 6.24246258 00	1.8936198E-01.	4:35070#18=01/ DATA 401	
415	DATA TRAMODNE 1 831 6,79187878=		4:2727837E 00;		6
417		01. 9.8862639E-01)		1,86451838 00; DATA 403 2,56732846 00; DATA 404	
418		00. 2.97481318 00		3,3657094E 0Q4 DATA 405	
419	934 3,96510424	00. 3,77101178 00	\$ 9848309E 80	4,20637248 00+ DATA 406	
420	435 4,43369246	00. 4.66344598 00	4,8917964E 00.	5. \$1556888 001 DATA 407	
421	936 5,33309945	D. 5.5445957E 005		5,9582840# 00. DATA 408	
422	437 6,2678520E 438 8,4827296E-		3.32591078=61. 4.4288556E 00.	5.80901868-01; DATA 409 1.71505248 00; DATA 410	
424	439 1:9908680E	D. E.2471437E 08	2:4835279E 80%	2,7032361E 80/ DATA 411	
425		41 4861 7368)/	911-4-8-1- 308		6
426	941 2,91094562	JB. 5,146252E DQ		3,50977438 00. DATA 413	-5.
427	442 3,71450705	00. 8,92022578 000		4,37167968 50/ DATA 414	
428	DATA 100HOBN(1 431 4,64634216-	018 47 861/	3703234045-4-		6
429 430	451 4,6463421E=			3,10809478=01. DATA 415 =5,87198518=02; DATA 416	
431	493 -4:504554350			-3,38497868-01. DATA 417	
432	494 -418835750E-	11. =4,39257438=01	-4,676558\$E~d1,	-4:5126350#-01: BAYA 418	
433	495 -4; #9726¥0E"	08 * - B * 44410 A @ F = 0 3 A	-8 00 M A O SE 48 7 7	-1.01713838-013 DATA 419	
434	456 #5188774716	02. 9.71071025-02	4.65498218-014	2165769#18#818 DATA 420	

```
435
                               357
                                              315143634E-04.
                                                                                                                               8;9632776E-812
                                                                                       6,16806988-019
                                                                                                                                                                        4:47940808-81% DATA 421
                                              4,5005283E-04.
1.0778969E-04.
                                                                                          05971598-068
19965468-08
                               498
                                                                                                                                   40848998-012 218881688-014
49879688-02, -1149076838-01/
436
                                                                                                                                                                                                              DATA 622
437
                                                                                                                                                                                                               DATA 423
                                       DAYA SOCHODNITTAL STY 921/
438
                                                                                                                                                                                                               DATA 424
                                           -2:677(8)4E-0; -2:8832603E-0; -4:803834E-0; -6:0786678E-0; -7:0786678E-0; -7:07866678E-0; -7:078666678E-0; -7:078666678E-0; -7:078666678E-0; -7:078666678E-0; -7:078666678E-0; -7:078666678E-0; -7:078666678E-0; -7:078666678E-0; -7:07866678E-0; -7:07866678E-0; -7:07866678E-0; -7:078666678E-0; -7:078666678E-0; -7:07866678E-0; -7:078666678E-0; -7:078666678E-0; -7:07866668E-0; -7:07866668E-0; -7:07866668E-0; -7:07866668E-0; -7:07866668E-0; -7:07866668E-0; -7:078666668E-0; -7:078666668E-0; -7:0786666668E-0; -7:07866668E-0; -7:07866668E-0; -7:078666668E-0; -
                               46
                                                                                                                             -8,57470298-0,1 -4,1266,808-0,4
-8,60679178-81 -4,29212958-61
439
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           425
                               462
440
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           426
441
                               463
                                                                                                                                     99969778-01
                                                                                                                                                                            21428868-021
                                                                                                                                                                      .9
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           427
                                                                                                                                  40434578-011
                               664
                                                                                                                                                                         3131916858-813
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           428
                                                                                           4987127E-018
                                              4 | 6814959E-01.
443
                                                                                                                                     66982982-81.
                               455
                                                                                                                                                                         4 | 56229 | 68 - 011
                                                                                                                                                                                                                           429
                                              4,4924354E-01,
7,9943048E-02,
                                                                                          6033332E-01V
                                                                                                                                   8421478E-014
444
                               446
                                                                                                                                                                         1703860$38-017
                                                                                                                                                                                                               CATA
                                                                                                                                                                                                                           430
                                                                                          75898388-02
                                                                                                                                  78378162-01
445
                               167
                                                                                    -8
                                                                                                                                                                     -2.61620958-61. DA'A
                                                                                                                                                                                                                           431
                                            -3.8468895E-04. -6.448012XE-017 -4.3786412E-012
-4.6568177E-01. -6.4286203E-017 -8.9786188E-013
                                                                                                                                                                     =4;54527978-011 DATA
=3;29762288-01/ DATA
446
                               448
                                                                                                                                                                                                                           432
447
                                      DAYA DDCROUN(1) als 939188)/
-2,82983548-01, -1,39914488-016 -2,92837418-02,
-2,82983548-01, -1,39914488-016 -2,92837418-016
                                                                                                                                                                                                                           433
448
                                                                                                                                                                                                               DATA
                               671
449
                                                                                                                                                                         8,88172942-02.
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                           435
450
                               472
                                                                                                                                                                         4.36394828-01;
                                                                                                                                                                                                              DATA 436
451
                                              4:6208529E-01.
3:6171434E-01.
                                                                                          ,5800895E901
                               473
                                                                                                                                   2612285E=011
                                                                                                                                                                         3,7284452E+015 DATA
                                                                                                                             272387720011
2127387720011
2137347380011
-0152734780011
31738707780024
                                                                                    2,1848968E-017
452
                               474
                                                                                                                                                                         3,3418623E-028 DATA
                                                                                                                                                                                                                          438
                                                                                                                                                                      -3.4291172E-01.
-4.61365868-011
453
                               475
                                            -6 6976879E-02.
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                           439
                                            -3:7611138E-01: -4:2374212E-017
454
                               476
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           440
455
                               477
                                                                                                                                                                      -217629453E-011
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                           441
                               478
456
                                                                                                                                                                         1,5098988E-01. DATA
                                            =1:62510562=01. a7:6343886E=02*
                                                                                                                                                                                                                          442
                               279
457
                                              2:5768279E-01.
                                                                                       8:48571788-018
                                                                                                                                # 1528030E-01a
                                                                                                                                                                         4.5283082E=01/ DATA
                                                                                                                                                                                                                          443
                                       DAYA &DCHODN([] & [=1879144)/
4,3819771E-02: 4.3369539E-017
458
                                                                                                                                                                                                                           444
                               481
459
                                                                                                                                3;843228$E-011
                                                                                                                                                                         3,4622229E=011
                                                                                                                                                                                                              DATA
                                                                                    1.46521878-01;

-2.1671238-057

-4.46947258-017

-6.67864388-017
                                                                                                                             $ 3466482E-62a
-2 9498894E-61;
-6 5722602E-61;
460
                               482
                                                                                                                                                                      -3,9975187E-02.
                                              2,3524409E-01.
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                           446
                                            -1.3100585E-01.
-4.2114305E-01.
461
                               483
                                                                                                                                                                      -3,5997559E-01.
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           447
                               484
462
                                                                                                                                                                                                               DATA
                               885
                                            a4.2882985E-01.
                                                                                                                                    97993992-017
463
                                                                                                                                                                      -2.6157005E-61.
                                                                                                                                                                                                              DATA
                                                                                                                             # 059466#-01,
# 38#913#E-01;
0 35#3927#-01;
-1 967883##-826
                                                                                    5 8783265E-019
464
                               486
                                            -1,4296366E-01.
                                                                                                                                                                         2112859$2E-811
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                           450
                               887
                                              3.6998722E-01.
465
                                                                                                                                                                         4.56957788-011
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                          451
                                                                                          10046184E-01V
466
                               488
                                              4,9283071E-01.
                                                                                                                                                                         2.55893968-01;
                                                                                       4
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                          452
467
                                              118719336E-01.
                                                                                       7.6181228E-026
                                                                                                                                                                     -1.1129693E-01/
                                                                                                                                                                                                              DAYA
                                                                                                                                                                                                                          453
                                       DATA | DCHOON( 1) + 1 = 1457180)/
458
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                          454
                               491
469
                                            =1,9796155E=01; =2,7694675E=01; =3,4988904E=81; =3,9980691E=61; DATA =4,3738919E=01; =4,9518086E=01; DATA
                                                                                                                                                                                                                           455
470
                                                                                                                                                                                                                           456
471
                               #93
                                            -3;7821395E-01.
                                                                                    -5.1245939E-017
                                                                                                                             -2.30931890-01, -1.37092758-01; DATA
                                                                                                                                                                                                                           457
472
                               494
                                                                                          ,178426%E+029
                                            -3,4791274E-02.
                                                                                       7
                                                                                                                                                                                                                           158
                                                                                      4.2009988E-01*
5.6127735E-01*
5.9598319E-03*
                                                                                   4 2069988E-01 4 5251718E-01 5 545717E-01 5 545717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 844717E-01 6 84471E-01 6 844717E-01 6 8447
473
                                              3,5953529E-01.
4,2941652E-01.
                               995
                                                                                                                                                                         4151629498-011
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           459
                               496
474
                                                                                                                                                                         1,95975$4E-811
                                                                                                                                                                                                               DATA 660
                               .97
475
                                              1161661226-01.
                                                                                                                                                                      -117657771E-01+
                                                                                                                                                                                                               DAYA 461
                                            -2,$8911#2E-01;
                               998
                                                                                                                                                                     -4.29709805-01/
-3.90794818-01/
476
                                                                                                                                                                                                               SATA
                                                                                                                                                                                                                           462
477
                                            -4.5270056E-01
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                          443
                                       DATA IDCHOUNTITOTELETPEED!
478
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           464
                                            -3:8833986E-01: -2:4988222E-01: -8:3783506E-81: -5:6936994E-02: 4:7821281E-02: 1:525989E-01: 2:5036272E-61: 3:3649925E-01:
479
                               901
                                                                                                                                                                                                                           445
                                                                                                                                                                                                              DAYA
480
                               502
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                          466
461
                                              4,6368996E-01.
                                                                                          45460228-018
                               503
                                                                                                                                   56297518-0%
                                                                                                                                                                         4,3615293E=017
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                           467
                                              3;9774139E=01; 3;174019HE=017
3;9392527E=02; =9;768068EE=029
                               504
482
                                                                                                                                   3120358E-01.
                                                                                                                                                                         1,36928228-01. DA.A
                                                                                                                                   4947356E001
483
                               505
                                                                                                                                                                      =2:34091878+01. DATA
                                                                                                                                                                                                                          469
                                                                                          7189179E-017
                                                                                                                                   19849058-01
484
                               $06
                                            -3,6921570E=01.
                                                                                                                             - 4
                                                                                                                                                                      =4,4823827E-01: 17. TA
                                                                                                                                                                                                                           471
485
                                            -4.5691754E-01. -4.426948FE-C1F
                                                                                                                               0.062706188014
0.2152228E-022
0.1759255E-011
                                                                                                                                                                      -3:48727518-01:
2:3399271E-02:
                                                                                                                             --
                               $07
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                           471
486
                               548
                                                                                                                             -8
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                           472
487
                                              1.2892645E=01.
                                                                                       2:2899224E-01
                                                                                                                                                                         3,48695838-01/
                               509
                                                                                                                                                                                                               DATA 473
                                       DAYA {DCHOON(I) 1 = 2877282)/
4.3638252E-01: 4.362275E-01)
488
                                                                                                                                                                                                                          474
489
                               $11
                                                                                                                                4,46939988-017
                                                                                                                                                                         4 4 9 7 6 3 6 7 5 8 - 0 1 4
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                          475
490
                                              3, 4535953E-01"
                                                                                          65886598-01
                               512
                                                                                                                                     737718 0E-817
                                                                                                                                                                         7.65734576-025
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                           476
491
                                            =2,9469989E=02.
                                                                                    -4,1646597E-019
                                                                                                                                  8494557H-613
                                                                                                                                                                      -2.8421789E=610
                               913
                                                                                                                                                                                                              DATA
492
                               914
                                                                                                                                                                      -4,55114#5H-61.
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                           478
                                                                                    04,218844E-019
04,1821816E-019
E,9856617E-05
                                                                                                                                  71193178=013
81059898=03
72839468=01
493
                               $15
                                            -4.4923845E-01.
                                                                                                                                                                      9,4504008E-01
                                                                                                                                                                                                               DATA
                                                                                                                             -4
                                                                                                                                                                                                                           479
494
                                            -2:1910053E-01.
                               516
517
                                                                                                                                                                                                               CATA
                                                                                                                                                                                                                           480
495
                                                                                                                                                                         4:25898538-614 DATA
                                                                                                                                                                                                                           481
496
                                                                                          4982228E=018
                               518
                                               4 | $212755E-01.
                                                                                                                                # 18470792-01
                                                                                                                                                                         3,43941#88-01. DATA
                                                                                                                                                                                                                          482
                                       2.9042015E-01. 2.838141
DAYA 10CHOON(1) 112331288)
497
                                                                                                                                2.092363$R#813
                                                                                       2.038141350011
                                                                                                                                                                        1784013788-82/ DATA
                                                                                                                                                                                                                          483
498
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           464
                                            -8,3410050E-02; -8,7489642E-01; -3,8565281E-01; -4,2681972E-01; -4,3088971E-01; -8,8989978E-01
                                                                                                                             -2;56896868-01; -3;28359988-01;
-0;48973098-01; -4;50623258-01;
-8;28849348-01; -2;49945858-01;
499
                               521
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           485
                               522
500
                                                                                                                                                                                                               DATA
501
                               $23
                                                                                                                                                                      -2.4994585E-01+
                                                                                                                                                                                                               DAYA
                                                                                                                                                                        1;64884198-01;
4;446.5898-01;
3;86231168-01;
                                            -1,5646467E-01. =5,242603#E-02*
2,6466627E-01. 5,498595#E-01*
4,4868173E-01. 4,2486527E-01*
502
                               524
                                                                                                                                  67578682-623
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                          488
                                                                                                                                  10217838-014
74781548-014
503
                               525
                                                                                                                                                                                                               DATA
                                                                                                                                                                                                                           489
504
                               $26
                                                                                                                                                                                                              DATA
                                                                                                                                                                                                                          490
                                                                                   3.3336678E-015 3.6599093E-02, -5.6147983E-021 DATA 691
-2.3193518E-019 -8.0669293E-011 -316743084E-011 DATA 492
-4.4646493E-01* -4.483383E-01: -4.3506065E-01/ DATA 493
                               927
                                              2.2402348E-01.
505
                                            -4,4736429E-01,
506
                               528
                               $29
                                            -4.1298092E-01.
507
```

508	DAYA ODCHOON(I) 1 2897				DATA	694 6
509	531 -4, #165523E-01, =8,4	\$\$668XE=013	-2.7849021E-814	-1,92968828-01.	DATA	495
510		645415Eq025	£.1825589Ege1,	2122597488-014	DATA	496
511	533 3,25089248-01, 5,8	7516225-011	8,324988\$2-611	4,46545108-011	DATA	497
512	534 4, 29285 1 E 01, 8,8	49657984057	\$ 19995 de-811	2;39725838061.	DATA	498
513		\$2345@E-02F	-8,57359599-025	-1186569X4E-017	DATA	499
514		74845#2-016	-8,91940208-012	=4,60712928-01.	DATA	900
515		492899H-14	-9,3614927E-016	-4; \$864941E-01.	DATA	501
516		79252EE-01	-2,19\$360\$R-81	-1,28669638-61,	DATA	<b>9</b> 02
517	\$39 @2.7400055E-02. 7.4	4948668-027	2.78\$104#Eu011	2174767218-01/	BATA	903
548	DAYA +DCHOOR( 1) . 1 . 3857	3661/			DATA	
519	541 3.5644782E=01. 4.2	4594258-021	4,42\$7398E#84	4,36971978-01.		
520		9480528-011	2,68944988-01	1,71960838-01	DATA	306
521	543 7:41107176-024.6	3851298-056	-2,9796907E-014	-1,93948848-01	DATA	507
522		7928888-01	-8,9030484E-81	=418596084E=61.	DATA	
523		9447276-01	-# 1529129E-011	-3 4 7 2 2 3 9 2 0 8 - 61 +	DATA	
524	546 -3. \$2077738-018.3	746895E=01	-1,5135281B-016	-5,48583758-021	DATA	
529		297816E-017	2,3947157E-012	3:84758958-011	DATA	511
526		3505568-017	4,43898448-017	4:2020758-01:	DATA	
527	949 3.4789724E=01. 2.9	3437228-019	2.04257778-01	1108918838-01/	DATA	
528	DAYA +DGROUN(I) &1 = 3619				DATA	
529	551 1:2478227E-02. =6.3	#\$025\$E-05}	-1;72\$4438E-012	=2, \$3202 [8E-01;	DATA	<b>5</b> 15
530	572 =3,8286444E=01, =8,7	8985028=011	-8.70820598-011	-4,40714898-81/		
531		861/			DATA	
532	561 5,82595#4E 01, 5,8	8612702 019	\$ 9474108E 013	6,92315768 01.	DATA	
533	542 6.2016325E 01. 6.1	766938E 01	0 2424987E 01	6,29406768 614	DATA	
534		44194%E 017	4,3339689E 011	6,30700428 014	DATA	
535		957388E 01+	6,1399598E 61	6197088358 01+	DATA	
536		427297E 019	5,89\$480@E 011	5 : 85181878 01+	DATA	
537		87915%E 014	\$ 80\$3868E 012	5,80370128 514	DATA	355
538		294478E 04	5.85277328 014	5,48371288 014	DATA	
539		701818E 04	0,0247756E 017	6.08473408 014	DATA	
540		8720608 01F	8,2682223E 01%	6,30443709 01/	DATA	
541	DATA TRHOON (I) 41 m 377	721/	41		DAYA	-
542		432167E 011	6,333695\$E 01;	6,3037884E 01;	DATA	
543		891005E 013	6,11852918 01,	6+92763242 014	DATA	
544		67198¥E 01	5,803455gE 01,	5,7578321E 01;	DATA	
545 546	574 5,7313418E 01, 5,7 575 5,8048926E 01, 5,8	256663E 01	5,7383861E 01i	5,76612822 81.	DATA	
547		508598E 011	9,9009192E 011 0,1109450E 011	5,9529242E 011 6,21232X1E 011	DATA	
548		9872246 01				933
549		4961735 017				
550		128751E 01	0,3158157# 013 0,020981## 013	612621387E 614 5,9254525E 61/	DATA	934 835
The second secon			A.054.016E 071	2115242528 971	DATA	
551 552	581 5.9337353E 01 5.7	988)/ 536667E 015	\$; 69g4408# 011	5,65546328 011	DATA	536 6 477
553	582 5,4454193E 01, 5,6	618584E 011	5,7084760E 011	5,7589317E 01	DATA	
554		827662E 051	\$,9780282B 01,		DÂYÂ	
555	584 6111644586 01. 6.1	7591026 01	8,2279474E 017	6,87242906 61/	DATA	
556		3989198 010	4 8575941E 012	6,36699408 01;	DATA	
557		481723E 01	0,3166801H 017	6186903448 01.		The state of the s
558		2683778 017	4,034740#E 811	5,93973948 01.	DATA	
559		322267E 01	\$ 677610\$E 012	5162591828 014	DATA	
560	589 5.6025130E 01. 5.6	8964928 010	\$ 6459996P 017	5,70694488 61/		
561	DAYA ERHOON (1) & 1 m1899	144)/			DATA	
562	591 5,7857941E 0g. 5.8	748759E 047	5,9648638E 011	6.05557828 018		_
563	592 6,2363887E 01, 6,2	663472E 017	8,2639400E 011	6.30878058 014	DATA	
564	593 6,3412243E 01, 6,8	649700E 048	8,3747091E 015	6.37087878 814	DATA	
565	594 6,3595283E 01. 6.8	873865E 017	4,30\$7114# 012	6185884868 016	DATA	
566	595 6.2000440E 01. 6,1	3812956 01#	6,3497989E 01:	5,9619770E 011	DATA	
567	576 5.4712053E 01. 5.7	835689E 01	\$,70\$27918 01%	5,64664218 01.	DATA	
568	597 5.6118768E 01. 5.8	058262E 010	5,6299574E 812	5,68202828 011	DATA	
569	578 5,75669248 01, 5,8	446848E 019	5,9437717E 014	019404485E 011	DATA	
570	599 6.1302258E 01, 6.2	446340E 018 683153E 018	6,2786654E 014	6,31883968 01/	DATA	Section and
571	DATA ERMOON (1) . 1 . 457	180)/			DATA	
572	001 016477UD4E U11 013	991353E 079	6,3666734E 01	6,3559989E 01/	DATA	<b>5</b> 57
573	682 6,35478402 01, 6,8	844184E 015	8,262865\$B 011	6121968#5E 01:	DATA	<b>9</b> 58
574	603 6:2661784E 01. 6:1	85656AE 010	6; 936804\$P 012	5,96784888 016	DATA	
575	804 9,8928855E 01, 5,8	2810528 01#	1,7537158E 011	5,69954232 010	DATA	560
576	805 5:06347978 04. 5:6	5045988 017	\$ 3 4 6 2 3 4 5 4 5 6 1 7	5,70240458 61.	DATA	561
577	806 5.7646332E 04. 5.8	446792E 018	\$ 9325038E 011	6:02951528 018	DATA	
578	807 612198464N 01. 6.1	9953266 015	8 2649804E #11	6731305000 016	DATA	
579	608 6,34254982 01, 6,3	587108E 05	8,34799378 01	6,32765658 810	DATA	
586	609 5.29548865 01. 6.2	544072E 015	9:20714462 011	6745598788 01/	DATA	965

```
581
                                                                                                                  DATA 366
                                                                      $ 993775@R 61,
$ 792500@R 612
                 611
                                                                                            5,9396585E 01. DATA 367
583
                 812
                                                                                            5: 25657988 618 DATA 568
                         5.9324196E 01.
5.8153239E 02.
                                               5,7842918E 019
5,8864911E 019
                                                                      $ 73486798 813
$ 95918758 818
                                                                                            577654650# 018
6,0422091# 014
584
                 813
                                                                                                                 DATA 569
585
                                                                                                                 DATA 570
                         6,1241961E 01,
6,3535004E 01,
6,8550776E 01.
                                                6,1989239E 011
586
                                                                                             6,30678558 01. DATA 571
                 815
                                                                        26$1104E 61
                                                                     6,3280917E 014
6,1426377E 614
9,9128382E 014
                                                                                             6189862648
                 616
617
                                               6.3483860E
587
                                        014
                                                                                                                  DATA 572
                                                               01
                                                                                                           010
588
                                       01.
                                                               010
                                                                                                                 DATA
                                                                                                            011
                                               5,96581758 015
                         6.82060878 OL.
589
                 818
                                                                                             5 67745818 014
                                                                                                                 DATA 574
590
                                               F. 8199981E 06*
                         F:8449089# 04"
                                                                      5:8026059E 011
                                                                                             5.7929647E 61/
                 419
                                                                                                                 DATA 575
                    DATA (RMOON (1) . 1 . 2677252)/
591
                                                                                                                  DATA 376
                         5,7918751E 0g.
5;8966351E 01.
6;2939927E 02.
                                               9,8689636E 019
9,9920438E 019
6,21997088 019
                621
822
592
                                                                      5,8293979B 01%
                                                                                            5,85237868 01i
                                                                                                                 DATA 577
                                                                      8,91508148 617
8,27808148 814
                                                                                            618849588 614
6141178998 016
593
                                                                                                                 DATA 578
                 123
                                                                                                                 DATA 579
                                                                       34877948 617
                                                 . 8384807E 04
595
                 524
                         6;3539283E 04;
                                                                                             6.28260248 616
                                                                                                                 DATA SED
                         6.2288437E 01.
5.9409214E 01.
                                               6,16261178 018
9,87954368 018
                                                                      6,88888498 611
5,82594418 612
                                                                                            6:81388418 010 DATA 581
5:49152238 016 DATA 582
596
                 625
597
                 826
                         5:7719281E 01:
598
                                               5,7692655E 01F
                                                                      5,7753598E 012
                827
                                                                                            577943880E 014 DATA 583
                         5,8214373E 01.
5,9856984E 01.
                                                                      $ ,8938318E 014
599
                                               9,8949941E 019
6.0399149E 019
                                                                                            5,93751128 010
6,64982838 01/
                 62B
                                                                                                                 DATA 584
600
                 629
                                                                      8:0951967# 014
                                                                                                                 DATA 585
                                                                                                            01/
                  DATA ARHOON (1)41=2539288)/
31 6:2052737E 01: 6:256315
601
                                                                                                                  DATA 586
                831
                                                                      8;2993013E 011
8;3258795E 01,
                                               5,2563150E 017
5,3449241E 017
602
                         6,2052737E 01.
                                                                                            6.3305241E 01.
                                                                                                                 DATA 587
                632
                                                                                            6.2832512E 01: DATA 588
603
                         613466132E C1.
                         6,2243660K 01,
5,8881533E 01,
5,8872077E 01,
                                               6,15817558 018
5,8899615E 019
5,6927723E 019
                 633
604
                                                                      6,0652779E 011
                                                                                            5,97563558 011
                                                                                                                 DATA 589
                                                                      5.74755980 612
5.71898878 613
605
                                                                                            5120577848 016
5125868138 017
                 834
                                                                                                                 DATA 590
                 835
606
                                                                                                                 DATA 591
                                                                      $ 9347118E 014
                 836
                         5.8119466E 01.
                                               5,8749551E 013
607
                                                                                            5,99727#2# 016
                                                                                                                 DATA 592
                         6.2638433E 01.
                                               6,1152902E 017
                 837
                                                                      8,1691038# 01%
8,3340139# 01%
600
                                                                                             6,8188745E 011
                                                                                                                 DATA 593
609
                 838
                                                                                            6,35527428 014
                                                                                                                 DATA 594
                 639
                         6;3641467E 01.
                                                                      8:3355686E 014
610
                                               6.3582281E 01V
                                                                                            6,29499698 01/
                                                                                                                 DATA 595
                   DATA (RMODN (1) . 1 = 2899384)
611
                                                                                                                  DATA 596
                                               6 1625248E 017
5 7861286E 015
5 62418838 017
                 641
                                                                                                                 DATA 597
                                                                      6:07327912 01.
612
                         6,2364845E Q1.
                                                                                            5.9767071E 01.
                 642
                                                                      $,7080114E 611
613
                         5,8784012E 01.
                                                                                             5:4514059R 01: DATA 598
                                                 62418838
                 643
                         5. 9216629F 01:
                                                                       64478388 017
93484868 017
                                                                                     014
614
                                                                                             5,70048860
                                                                                                                 DATA 599
                                                                                                           014
                                               5.8584145E 011
                 644
                         5,7708457E 01.
615
                                                                                             6 81770756
                                                                                                           016 DATA 600
                                               6,1636902E 01F
6,3445337E 01F
6,3649592E 01F
                                                                       222910$P 014
362059$P 014
331692$P 014
                         6,8948580E 01,
6;3116021E 01,
6;3738389E 01.
                 645
616
                                                                                             6 : 27215788
                                                                                                            014
                                                                                                                 DATA 601
                 846
                                                                                            6137288216
                                                                                                                 DATA 602
617
                                                                                                            011
                 647
618
                                                                                             6 18991797H
                                                                                                            61. DATA 603
                         6,2456634E 01.
5,9058039E 01.
                                               6.1792925E 019
5.8693055E 019
                                                                      6,0955150E 01,
619
                 548
                                                                                            6,8033986R 016 DATA 664
620
                 649
                                                                                            5.65139978 01/
                                                                                                                 DATA 605
821
                  DATA (RMOON (1)41=3897566)/
                                                                                                                  DATA 606
                 651
                                               5,5897391E 018
5,8684327E 018
6,1750492E 018
                                                                      $;6054960# 81,
5;9065820# 01;
6:2452771# 61;
622
                         5,6056632E 01.
                                                                                            5,4510440E 011
                                                                                                                 DATA 607
                         5.7211698E 01.
6.6935545E 01.
                 132
623
                                                                                             6,8017980# 018
                                                                                                                 DATA 608
624
                 653
                                                                                             6,29684728 01.
                                                                                                                 DATA 609
625
                 654
                                               6,3684691E 01
                                                                        37254988 017
                         6,3856519E 01,
                                                                                             6,3732326E 61.
                                                                                                                 DATA 610
                         6.3636325E 01.
6.2293457E 01.
                                               6,3444893E
                                                                       3128462E 01.
                 855
                                                                                             6 : 27762468 814
626
                                                               011
                                                                                                                 DATA 611
                                               6.1707239E 017
                                                                      8 164 245E 012
5 7726450k 912
5 6168394E 014
5 8735591E 017
627
                 856
                                                                                             610244846E
                                                                                                            01.
                                                                                                                 DATA 612
628
                 657
                         5,9406998E 01;
                                                                                             5 7 7 0 1 0 2 5 2 8
                                                                                                                 DATA 613
                                                                                                            011
                                               5.619736#E 047
5.788580#E 041
                         5.6472414E 01.
5.7021377E 01.
                                                                                            5,6457486E 01/
5,9727682E 01/
                                                                                                                 DATA 614
629
                 658
                 859
630
                                                                                                                 DATA 615
                    DAYA (RMOON (1):1=3617368)/
1 6:8708812E 01: 6:1593910E 017
631
                                                                                                                 DATA 616
                                                                     6:2320776E 811 6,2941564E 81; DATA 617
6:3666485E 81; 6:3564027E 81/ DATA 818
632
                661
                         6.3351969E 01.
633
                                               6.3582675E 04
                                                                                                                 DATA 619
634
```

29746 WBRDS OF MEMORY USED BY THIS COMPILATION

```
67906 05 09-25-72 13,584 1972 EPHEMERTS

PREFABE

PROBRAH WREAK 4273

COMMON LENGTH 8
```

PRIMARY SYMDEF ENTRY

A CORNI BIAR

TARLE

SECONDARY SYMDEP ENTRY

BLBEK

LENGTH

I EMABEK

12

SVAREF

4273 IS THE NEXT AVAILABLE ESCATION.

GMAP VERSION/ASSEMBLY DATES JMPA 690178/052971 JMRS 090171/052971 JMPC 050171/058571

THERE HERE NO MARMSNG FLASS IN THE ABOVE ASSEMBLE

49 19193 HORDS OF HEHORY HERE USED BY GMAP FOR THES ASSEMBLY?

SNUMB = 71034, ACTIVITY # # 02, REPORT CODE # 74, RECORD COUNT # 05504

71034 02 11=03=72 11.623 1973 EPHEMERIS

```
* 1973 EPHEMERIS
        C-1973*
                                                                                                 DATA
                                                                                                 DATA
                 DIMENSION RASUN (369), DCSUN (369), RSUN (369)
UIMENSION RAMODY(369), DCMOON(369), RBOON(369)
                                                                                                 DATA
                                                                                                 DATA
                 DIMENSION ARRAY(2214)
                 DOUBLE PRECISION A
                 EQUIVALENCE (RASUN, ARRAY), (DCSUN, ARRAY(370)), (RSUN, ARRAY(739))
EQUIVALENCE (RASUN, ARRAY(1108)), (DCSUN, ARRAY(1477))
                EQUIVALENCE (RMOON ,ARRAY(1846))
COMMON ,EPHBLK, Y(4), I
Y(1) = ARRAY(1)
10
11
                 Y(2) = ARRAY(1+1)
Y(3) = ARRAY(1+2)
12
13
                 Y(4) = ARRAY(1+3)
14
15
                 HETURN
                PATA (RASUN (I), I = 4.8912026E 00,
                                       1, 36)/
4:9104916E 00,
                                                                                                 DATA
17
             11
                                                         4,92975925 00,
                                                                              4.9490029E 00, DATA
                                        4.9874083E 00,
18
              12
                    4.9682201E 00.
                                                          5,00656525 00,
                                                                               5.9256882E 00, DATA
                    5.0447753E 00,
5.1207219E 00,
5.1959443E 00,
              13
                                                                        001
                                                           5,08283285
                                                                               5.1017992E 00: DATA
19
                                        5.0638242E
                                                    000
                                        5.1395992E
                                                           5:15542976
                                                    00,
20
                                                                        000
                                                                               5.1772118E
                                                                                            000
                                                                                                 DATA
                                                                                                        10
              15
21
                                        5.2146263E 00,
                                                           5,2332566 00,
                                                                               5.2518343E 00, DATA
                    5,2703585E 00,
5,3439099E 00,
5,4165664E 00,
              16
22
                                        5.2888286E 00,
                                                           5.3072441E 00.
                                                                               5.8256047E 00. DATA
                                                                                                        13
                                        5:3621591E 00,
                                                           5.3803518E 00.
                                                                               5.3984877E 00. DATA
23
                                                                                                        13
                                        5.4345874E 00,
                      .4165664E 00,
              18
24
                                                           5 4525502E 00,
                                                                               5.4704547E 00. DATA
                                                                                                        14
         19
                                       5.5060869E 00;
37; 72)/
                    5.4883003E 00,
25
                                                           5,52381415 00,
                                                                               5.5414819E 00/ DATA
                                                                                                        13
              DATA (RASUN (1), 1:
21 5.5590901E 00,
26
                                                                                                 DATA
                                                                                                        16
27
                                       5.5766387E 00.
                                                           5 $ 5941279E 00:
                                                                               5.4115579E 00, DATA
                                                                                                        17
                    5.6289291E 00,
28
              55
                                        5.6462420E 00,
                                                           5,6634971E 00:
                                                                               5.6806948E 00: DATA
                                                                                                        18
29
                    5,69783598 00,
                                                           5.7319515E 00:
                                                                                                        19
              23
                                        5 . 7149212E 00 .
                                                                               5.7489278E 00, DATA
              64
                                                           5,7995443E 00,
                    5.7658511E 00,
                                        5.7827229E 00,
30
                                                                               5.8163171E GC. DATA
              25
                                 000
                    5.8330423E 00,
5.8994937E 00,
                                        5.84972175
                                                           5 2 8 6 6 3 5 5 2 E
                                                                        001
                                                    00.
                                                                               5.8829457E 00. DATA
32
                                        5.91600UJE
                                                           5,9324673E
                                                                        00.
                                                                               5.9488952E 00, DATA
                                                                                                        22
                                                    00.
              27
                    5.9652852E 00,
33
                                        5.98163876 00,
                                                           5,9979566E 00,
                                                                               6.8142401E QC, DATA
                                                                                                        23
              28
                                                           6.0528939E 00.
34
                    6,03049046 00,
                                        6.0467086E 06.
                                                                               6.0790535E 00, DATA
                                                                                                        24
              29
35
                    6.0951828E 00,
                                        6:1112849E 00,
                                                           6.1273612E 00.
                                                                               6.1434126E 00/
                                                                                                        25
                                                                                                 DATA
               HATA (RASUN $1) ! I =
                                       73,108;/
6,1754469E 00,
36
                                                                                                 DATA
                                                                                                        26
                    6.1594407E 00,
6.2233493E 00,
                                                           6,1914327E 00,
                                                                               6.2073996E 00. DATA
                                                                                                        27
              32
38
                                       6.239283 E QO,
                                                           6,25520466 00,
                                                                               6.2711139E 00: DATA
                                                                                                        28
39
                                                           3.96946656-02.
              33
                    3.8281628E-03,
                                       1.9719598E+02.
                                                                               5.1485086E#02, DATA
                                                                                                        29
                    6,7362388E-02,
                                        8:3239099E=02:
                                                           9,91137036-02,
40
                                                                               1.1499068E=01. DATA
                                                                                                        30
              35
                    1,30870386-01,
41
                                       1,4675415E=01,
                                                                               1.7853939E#011
                                                           1.02643345-01,
                                                                                                 DATA
                                                                                                        31
              36
37
                    1.9444341E=01,
2.5916343E=01,
3.2210129E=01,
                                       2.1035663E=01,
2.7412505E=01,
                                                           2.2628025E-01,
2.9010131E-01,
                                                                               2.4221550E-01,
3.6609298E-01,
42
                                                                                                 DATA
43
                                                                                                 DATA
                                                                                                        33
              38
                                        3.3812736E-01,
                                                           3.9417237E-01,
                                                                               3.7023747E=01.
                                                                                                 DATA
44
                                                                                                        34
              39
45
                    3.663241. ==01,
                                        4.0243394E-01,
                                                           4,1956823E-01,
                                                                               4.3472830E=01/
                                                                                                        35
                                                                                                 DATA
              DATA (RASUN 41), 1:109,144)/
41 4.50916092-01, 4.6713231E-01,
46
                                                                                                 DATA
                                                           4,8337840E-01,
                                                                               4.9965863E-01, DATA
                                                                                                        37
                    5.15965045-01,
48
              42
                                       5.3230765E=01,
                                                           5.4368449E-01,
                                                                               5.6509647E=01, DATA
                                                                                                        38
          6.3111188E-01, DATA
6.9774667E-01, DATA
49
                                                           6,1455133E-01,
                                                                                                        39
50
                                                           6,8132819E-01,
                                                                                                        40
51
                                                           7,4814273E-01,
                                                                               7.6502106E-01, DATA
                                                                                                        41
52
                                                           8,1589472E-01,
                                                                               8.3293221E=01:
                                                                                                 DATA
                                                                                                        42
                                                                               9.0148654E=01,
53
                                                           8 8 4 2 8 6 9 0 E - 01,
                                                                                                 DATA
                                                                                                        43
                                                           9.9333078E-01,
54
                                                                               9.7069376E=01, DATA
                                                                                                        44
55
                                                          1.02302435 00,
                                                                               1.8405471E 00/ DATA
                                                                                                        45
                                                                                                 DATA
36
                                                                                                        46
57
                                                           1.0933452E 00,
                                                                               1.1110208E 00.
                                                                                                 DATA
                                                                                                        47.
             52
58
                    1,12873146 00,
                                        1.1464773E 00.
                                                           1.16425718 00.
                                                                               1.1820701E 00. DATA
                                                                                                        48
                    1.1999144E 00,
              53
59
                                        1.2177883E 00.
                                                           1.2356902E 00.
                                                                               1.2536181E
                                                                                           OO. DATA
                                                                                                        49
              54
                                        1.28954556 00,
                                                           1 3075419E 00.
                    1.2715704E 00,
60
                                                                               1.3255579E 00. DATA
                                                                                                        50
              55
                    1.34359256 00,
                                        1.3516442E 00.
                                                           1.57971186
                                                                        00.
61
                                                                               1.4977939E
                                                                                           DO: DATA
                                                                                                        51
                                                           1.45211356
                                        1.4337962E 00,
62
              56
                                                                        100
                                                                               1.4702395E
                                                                                            DO. DATA
                                                                                                        52
              57
                    1.4883729E 00,
                                        1.5065122E 00,
                                                           1.5246557E 00,
63
                                                                               1.5428021E QO. DATA
                                                                                                        53
              58
                    1,5609497E 00,
                                        1.5790971E 00.
                                                           1,5972427E 00,
                                                                               1.6153851E 00.
64
                                                                                                        54
                                                                                                 DATA
                    1.6335227E 00,
                                        1,6516539E 00.
                                                           1.6697769E 00.
                                                                               1.6878901E
65
                                                                                            00/
                                                                                                 DATA
                                                                                                        55
               DATA (RASUN 11), 12181,216)/
61 1,70599146 00, 1,724,7846
66
                                                                                                        56
57
                                                                                                 DATA
                    1.70599148 00,
                                                          1,7421492E 00,
1,5142232E 00,
              61
                                                                              1.7602014E 00,
1.8321879E 00,
                                                    0.10
                                                                                           DO. DATA
                      .7782332E 00.
              62
                                        1.7962427E 00:
68
                                                                                                 DATA
                                                                                                        58
              63
                                                           1,88590078 00,
69
                     1.85012086 00,
                                        1.8680254E 00.
                                                                              1.9037454E 00, DATA
```

```
64
                                           1.9393387E 00.
2.0101130E 00.
 70
                       1.93155848 00,
                                                               189570851E 00.
                                                                                    1.9747969E 00.
                                                                                                       DATA
                                                                                                               60
                       1,99247316
                                    00,
                                                                2.0277159E 00.
 71
                                                                                    2.0452809E
                                                                                                 00.
                                                                                                       DATA
                66
                        :0628076E
                                    50.
                                           2.0802956E
                                                        00 .
                                                                                    2.151535E
2.1843868E
2.2529493E
 72
                                                                2 09774438 00,
                                                                                                       DATA
                                                                                                  000
                                                                                                               65
                67
                                                               2,16713976
2,2358739E
                        .1325227E
                                                                             00,
 73
                                     00,
                                           2.14985165
                                                         00.
                                                                                                       DATA
                                                                                                               63
                                                                                                  900
                       2.20159206
                                     00.
                                           2.2187546E
 74
                68
                                                                                                       DATA
                                                         000
                                                                              00.
                                                                                                  000
                                                                                                               64
                69
                                    00,
 73
                       2.2699803E
                                           2.2869666E
                                                        00.
                                                                2,30390786
                                                                                    2.3208036E
                                                                                                       DATA
                                                                                                               65
                                                                                                  00/
                    ATA (RASUN 41) 1
2,33765446 00,
                                         $217,2521/
2.3544603E
 76
                   D
                                                                                                       DATA
                71
                                                                                    2.3879381E 00:
                                                        00,
                                                               2,37122135 00.
                                                                                                       DATA
                        ,4046106E 00.
 78
                72
                                           2.4212394E 00,
                                                               2.43782456 001
                                                                                    2.4543675E
                                                                                                       DATA
                                                                                                               68
                                                                                                 00.
                        4208681E 00,
 79
                73
                                           2.4873273E
                                                                2.50374596 00.
                                                                                    2.5201246E
                                                                                                       DATA
                                                         00.
                                                                                                  201
                                                                                                               69
                 74
                       2,5364646E
                                                                2,56903225
                                                                                    2.5852620€
                                                                                                               90
 83
                                     000
                                           2:5327667E
                                                         00.
                                                                             00.
                                                                                                       DATA
                                                                                                 900
                75
                       2,60145745
                                           2.6176194E
                                                                                                              71
                                                                2 6 3 3 7 4 3 9 E
                                                                             00.
 61
                                    00,
                                                         00.
                                                                                    2.6498470E
                                                                                                       DATA
                                                                                                 00.
                       2,6659144E 00.
2.7298909E 00.
                                                                2,69795976
                76
                                           2.6819517E
                                                         00,
                                                                             00,
 82
                                                                                    2.7139392E
                                                                                                       DATA
                                                                                                 00.
                                                                                                               72
                77
                                                                2.7617144E 00.
                                           2.7456156E
                                                         00,
                                                                                    2.8775880E
                                                                                                 00.
                                                                                                       DATA
                                                                                                               73
                78
                        .7934376E 00,
                                           2.8092644E 00:
                                                                2,32506758 00.
                                                                                    2.8408539E 00,
 84
                                                                                                       DATA
                                                                                                               74
                79
 85
                       2.8566189E
                                    00.
                                           2.8723657E
                                                         00,
                                                                2.8880956E 00,
                                                                                    2.9038099E 00/
                                                                                                       DATA
                                                                                                               75
                   DATA
                       A (RASUN (1)/1:253,288)/
2,91951016 00, 2,9351977E
                                                                                                               76
 86
                                                                                                       DATA
                61
                        .9195101Ê
                                                                                    2.9665409E
 87
                                                         00.
                                                                2,9508741E 00,
                                                                                                  00.
                                                                                                       DATA
                                                                                                               77
 88
                        .9821999€
                                                                                    3.0291477E
3.0917414E
                88
                                           2.9978528E
                                                                3.0135015E 00.
                                    00,
                                                         00.
                                                                                                  00.
                                                                                                       DATA
                                                                                                               78
 89
                83
                        .0447931E 00,
                                           3:0604395E
                                                                3,07608838 00,
                                                                                                               79
                                                         000
                                                                                                       DATA
                                                                                                  00.
                        :1073997E 00.
 90
                84
                       3
                                           3:1230648E
                                                        000
                                                                3 v 1 387378E
                                                                             00.
                                                                                    3.1544202E
                                                                                                       DATA
                                                                                                               80
                                                                                                  000
                 85
                       3.1701132E
3.2330173E
 91
                                                                3.2015363E
                                                                                                       DATA
                                     00.
                                           3.1858182E
                                                         00.
                                                                             00.
                                                                                    3.2172689E
                                                                                                  200
                                                                                                               81
                                                                3+2645666E
                 66
                                    00.
                                           3.2487828E
                                                                                                       DATA
                                                                                    3.2803700E
                                                         00 4
                                                                              00 :
                                                                                                               82
                                                                                                  00.
                87
 93
                       3.2961943E 00,
                                           3.3120408E 00,
                                                                3 8 8 2 7 9 1 0 9 E
                                                                             00.
                                                                                    3.3438060E
                                                                                                       DATA
                                                                                                  000
                                                                                                               83
                88
                                           3:3756770E 00:
 94
                       3,3597276E
                                    00,
                                                                3.8916559E
                                                                             00:
                                                                                    3.407$657E
                                                                                                  00:
                                                                                                       DATA
                                                                                                               84
                89
 95
                                                                3.6558988E 00,
                       3.4237083E 00,
                                           3.4397854E 00.
                                                                                    3.4720500E
                                                                                                  00/
                                                                                                       DATA
                                                                                                               85
                   DATA (RASUN $1) 11
3,4882409E 00,
                                         $289,324,/
$.5044729E 00,
 96
                                                                                                       DATA
                                                                                                               85
                                                                                                                     6
                91
                                                                                                 900
 97
                                                                3,5207476E 00.
                                                                                    3.5370664E
                                                                                                               87
                                                                                                       DATA
                92
                                                                3,5862987E 00.
 98
                       3
                        .5534305E 00.
                                           3.5698408E 00.
                                                                                    3.6028054E
                                                                                                       DATA
                                                                                                               88
                                                                                                 00.
 99
                93
                       3.6193618E 00.
                                           3.6359688E 00.
                                                                3 6 6 5 2 6 2 7 4 2 00 1
                                                                                    3.4693383E
                                                                                                       DATA
                                                                                                               89
                                                                                                 00.
                        .6861024E 00.
                                                                3,7197925E
                94
                                           3.7029203E 00:
                                                                             001
                                                                                    3.83671975
                                                                                                               90
100
                                                                                                       DATA
                                                                                                 00,
                95
                        .7537023E 00,
                                           3.7707411E
                                                                                    3.8049688E
                                                                                                       DATA
101
                                                                3,78783545
                                                                             00.
                                                                                                  00.
                                                         00,
                                                                                                               91
                                                                3,8567938E
102
                96
                       3.8221988E 00.
                                           3.8394670E
                                                         00,
                                                                             00.
                                                                                    3.8741798E
                                                                                                  900
                                                                                                       DATA
                                                                                                               93
                                    00,
                                           3.9091321E
3.9797736E
                                                                3,9266997E
3,9975899E
                97
                        .8916257E
103
                                                         002
                                                                                    3.9443288E
                                                                                                       DATA
                                                                             00.
                                                                                                  100
                                                                                    4.8154689E
                98
                        .9620200E 00,
104
                                                                                                       DATA
                                                                                                               94
                                                         00.
                                                                              00 .
                                                                                                  000
                                        4.0514145E 00;
#325,360;/
4.1240485E 00;
105
                99
                       4.0334105E 00.
                                                                4.0694807E 00.
                                                                                    4.0876089E
                                                                                                       DATA
                                                                                                               95
                                                                                                  00/
                   DATA LRASUN $1 ) !
106
                                                                                                       DATA
                                                                                                              96
                                                                                                                     6
                        ,1057983E 00.
107
               101
                                                                4 1423585E 00,
                                                                                    4.16072768 00:
                                                                                                       DATA
                                                                                                               97
                        ,1791545E 00,
                                                                4.21617656
               142
108
                                           4.1/75380E
                                                         00.
                                                                             00.
                                                                                    4.2347695E
                                                                                                  00+
                                                                                                       DATA
                                                                                                               98
               143
                        .2534147E 00.
107
                                                                4.29985618
                                                                             00.
                                                                                    4.3096493E
                                           4.2721108E
                                                         000
                                                                                                 200
                                                                                                       DATA
                        ,3284885E 00,
                                                                4736029845
               144
                       4
                                           4.34737216
                                                                             00.
                                                                                    4.3852658E
110
                                                         00 4
                                                                                                       DATA
                                                                                                 000
                                                                                                             100
               105
                        .4042727E 00.
                                           4.4233176E
4.4998416E
                                                                4,44239875 00.
                                                                                    4.46151425
111
                                                        00.
                                                                                                 000
                                                                                                       DATA 101
               106
                        ,4806624E 00.
                                                                4.5190499E 00.
                                                                                    4.93828568
                                                        00.
112
                                                                                                       DATA 102
                                                                                                 000
                        .5575462E 00,
                                           4.5768299E 00.
               107
113
                                                                4,59613436
                                                                             00,
                                                                                    4.6154578E 00:
                                                                                                       DATA 103
                        .6347976E
               108
                                           4.6541515E Q0;
                                                                             00:
114
                                     00,
                                                                                    4.4928909E
                                                                4 67351688
                                                                                                       DATA 104
                                                                                                 00.
               109
115
                        .7122711E
                                                                4.75103846
                                     00,
                                           4.7316545E
                                                                                                 20/
                                                         00,
                                                                              00,
                                                                                    4.7704199E
                                                                                                       DATA 105
                   DATA (RASUN 41), 12361;368,/
4:7897962E 00, 4:5091645E 00;
116
                                                                                                       DATA
                                                                                                             106
                       4:78979626
                                                                                    4.8478664E 00:
117
               111
                                                                4, $295221E 00,
                                                                                                       DATA 107
               112
                        .8671947E 00:
118
                                           4:8865044E 00.
                                                                4.9057931E 00:
                                                                                    4.9250585E 00/
                                                                                                       DATA 108
                   DATA (BCSUN $1), I = 1, 36,/
-4,0333362E-01, -4,0200667E-01,
119
                                                                                                       DATA 108
                                                                                                                     6
               121
                                                             -4:0054577E-01, -3.9895162E-01,
                                                                                                       DATA 109
               182
                         9722508E-01,
                                          =3.9536705E=01.
121
                                                              -3,9337851E-01, -3.9126045E+01,
                                                                                                       DATA 110
                      -3,8901394E-01; -3.8664018E-01;
-3,7876736E-01; -3.7589693E-01;
                                                              -3.8414029E-Q1: -3.8151560E=Q1: -3.7290578E-Q1: -3.6979540E=Q1:
               123
122
                                                                                                       DATA 111
123
                                                                                                       DATA 112
               125
124
                     -3,6456722E-01, -3.6322275E-01, -3.5976345E-01, -3.5619085E-01, -3.5250639E-01, -3.4871168E-01, -3.4480816E-01, -3.4079745E-01,
                                                                                                       DATA 113
               126
                                                                                                       DATA 114
                     -3.3468121E-01, -3.3246120E-01, -3.2813921E-01, -3.2371707E-01, -3.1919667E-01, -3.1457994E-01, -3.0986886E-01, -3.0906535E-01, -3.091714/E-01, -2.9518926E-01, -2.9012079E-01, -2.8496807E-01/
               127
                                                                                                       DATA 115
126
               128
127
                                                                                                       DATA
129
               129
                                                                                                       DATA 117
                    ATA
                         (BCSUN (1),1: 37, 72)/
                                                                                                       DATA 118
                        .7973324E=01, =2.7441836E=01, =2,6902552E=01, =2.6355680E=01,
130
                                                                                                       DATA 119
               132
                     -2.5801429E-01, -2.5240004E-01, -2.4671614E-01, -2.4096479E-01, -2.3514787E-01, -2.2926741E-01, -2.2332537E-01, -2.1732368E-01,
131
132
                                                                                                       DATA 120
                                                                                                       DATA 121
                                          =2.0514868E=01,
=1.8016369E=01,
                                                              =1.9897909E=01, =1.9279707E=01, =1.737960JE=01, =1.6738379E=01,
               134
                                                                                                       DATA 122
                      -2.1126416E-01,
133
               135
                      -1.8648465E-01,
                                                                                                       DATA 123
134
               136
                                          -1.5443305E-01e
135
                      -1.6092879E-01,
                                                              =1x4789857E-01, =1.4132734E=01,
                                                                                                       DATA 124
                                          =1.2808275E=01; =1.2141343E-01; =1.1471540E=01; =1.0124138E=01; =9.4469375E=02; =8.7676697E=02;
                     -1,3472140E-01,
136
                                                                                                       DATA 125
               138
                      -1.0799071E-01,
137
                                                                                                       DATA 126
               139
                      -8.0865259E-02, -7.4037005E=02, -6.7193867E-02, -6.8337841E=02/
                                                                                                       DATA 127
138
139
                        (BCSUN 61), 1 = 73
                                          73,108,7
=4,6594233E=02, =3,9710222E-02, =3.2820411E=02,
                   DATA
                                                                                                       DATA 128
DATA 129
141
               142
                      -5
                         .5926429E-02, =1.9029902E=02, =1.2132436E-02, =5.2355946E=03, DATA 130
               143
                       1.6589540E-03,
                                           8,5495611E=03,
                                                              1,54345656-02,
142
                                                                                   2.2312314E=02, DATA
```

```
144
                                                           4-2884709E-02.
                     2,91810746-02,
                                        3,6039120E=02.
                                                                              4.9716109Ee02, DATA 132
243
244
                                                           7.01072866-02.
              145
                       .6531528E=02.
                                        6.3329163E=02,
                                                                              7.4864121E-02, DATA 133
                      ,3597824E-02,
              146
                                                           9,4988701E-02,
145
                                        9.0306607E=02.
                                                                                . 9364234Es01,
                                                                                                DATA
                                                                                                     134
                                                           1.2341498E-01.
                                        1.1685723E-01.
                                                                                                     133
146
                                                                              1.29937165=01,
                                                                                                DATA
              148
247
                     1,36422176-01,
                                        1.42868356=01,
                                                           1 4 6 9 2 7 4 0 6 E - 01 .
                                                                              1.95637705=01:
                                                                                                DATA 136
                                       1.6023271E=01,
:109,144,/
1.9285192E=01,
148
              149
                     1.61957756-01,
                                                           1 7446109E-01,
                                                                              1.8064144E=01/
                                                                                                DATA 137
                  DATA (BCSUN $1), 1:
1,86772216-01,
149
                                                                                                DATA 138
                                                                                                             6
              151
150
                                                           1.9887900E-01.
                                                                              2.9485195E=01, DATA
                                                                                                     139
                       .1076920E-01:
                                                                               2.2817075E=01.
151
              152
                                        2,1662915E=01,
                                                           2 2 2 2 4 3 0 1 9 E = 01,
                                                                                                DATA
                                                                                                      140
                                                           2x4501307E-01:
                                                                              2.5049531E=01, DATA 141
              153
                     2,3384915E-01,
                                        2:3946382E=01:
152
              154
                                                           2.66523626-01,
153
                     2.55908906-01,
                                        2,61252225=01,
                                                                               2.21721635=01, DATA 142
              155
                     2.7684459E-01,
2.9655444E-01,
                                        2:8189092E=01;
3:0127871E=01;
154
                                                           2x8685908E-01:
                                                                               2.91747395=01.
                                                                                                DATA 143
155
                                                           3.0591872E-01.
                                                                               3.1047308E=01, DATA 144
              197
                       ,1494040E=01,
156
                                        3.1931942E=Q1,
                                                           3,2360882E-01,
                                                                               3.2780734E=01, DATA 145
                      31913716-01,
157
                                         3.3592670E=01.
                                                           3.8984500E-01.
                                                                               3.4366741E=01,
                                                                                                DATA
                      3.4739266E-01,
                                         3.5101949E-01,
                                                           3.5454668E-01,
                                                                               3.5797302Ee01/
                                                                                                DATA 147
158
                  DATA IRCSUL SIDE
                                        45,180)/
3,6451827E=01,
159
                                                                                                DATA 148
                       ,6129728E-01,
160
              161
                                                           3.6763481E-01.
                                                                              3.7064575E=01,
                                                                                                DATA 149
              162
                     3,7355002E-01,
3.8407991E-01,
                                                           3,79034335-01,
161
                                        3.7634654Ee01.
                                                                               3.8161242E=01, DATA 150
                                                           3.8867962E-01.
                                        3.8643595E901,
              163
                                                                               3.9081011E=01, DATA 151
162
              164
                                                           3496514830-01.
                                                                               3.9818515E201, DATA
                      .9282664E-01,
                                        3.9472843E=01,
                                                                                                     152
163
                       ,9973886E=01,
                                                           4.8249449E-01:
              165
                                        4:0117546Ea01.
                                                                                                DATA 153
164
                                                                               4.8369553EeQ1,
                                                                                                DATA 154
165
              166
                     4.04778226-01,
                                        4.0574221E=01.
                                                           4:06587185-01:
                                                                               4.0731283Ee01,
              167
                       .0791890E-01,
                                                           4 0877147E=01,
                                                                               4.0901762E+01,
                                                                                                DATA 155
                                         4.0840517Ee01.
166
                       ,0914348E=01,
                                                                               4.0879893E=01,
              168
                                                            4.0903415E-01,
                                         4.0914902E=01,
                                                                                                DATA 156
167
              169
                                                           4.67372435-01,
                                                                               4.8663745E=01/
                       .08443456-01,
                                         4.0795784E=01,
                                                                                                DATA 157
168
                  DATA (BUSUN (1) | 1=181,216)/
169
                                                                                                DATA 158
                     4:0582337E-01,
4:0130518E-01,
                                                           4 1 0 3 7 9 9 5 1 E = 01 1
3 . 7 8 3 4 4 3 9 E = 01 .
                                        4:0487058E=017
3:9988277E=01,
              171
                                                                              4.8261097E=01,
3.9669072E=01,
                                                                                                DATA 159
DATA 160
170
171
              173
                                                           3.91045126-01,
172
                     3.9492246E-01,
                                        3.9304033E=01,
                                                                              3.8893773E=01,
                                                                                                DATA 161
              174
173
                     3.8671891E-01.
                                        3.8438959E=01,
                                                           3,8195064E-01,
                                                                              3.7940297E=01.
                                                                                                DATA
                                                                                                     162
              175
                     3.7674748E-01.
                                                           3x7111685E-01,
174
                                        3.7398512E=01.
                                                                              3.6814364E=01.
                                                                                                DATA 163
175
              176
                     3.6506647E=01,
                                                           3,5860432E-01.
                                                                              3.5522148E=01.
                                        3.6188633E=01,
                                                                                                DATA
                                                                                                     164
              177
                     3.5173896E-01,
                                        3.4815797E-01.
176
                                                           3 4447977E-01,
                                                                              3.4070561E=01, DATA
                                                                                                     165
              178
277
                     3.36836946=01,
                                        3.3297523E-01.
                                                           3,2882187E-01,
                                                                              3.2467835E=01, DATA
                                                                                                     166
178
              179
                     3.2044606E=01,
                                        3.1512690E=01,
                                                           3.1172109E-01,
                                                                              3.0723137E=01/
                                                                                                DATA
                                                                                                     167
179
                  DATA (BCSUN (1), I=
3.02658736-01,
                                       217,252,/
2,9800468E=01,
                                                                                                DATA
                                                                                                     168
180
              181
                                                           2,9327063E-01,
                                                                              2.8845813E=01, DATA 169
                     2
181
              182
                      .8356861E-01,
                                        2,7860355E=01,
                                                           2 7 7 3 5 6 4 3 9 E - 0 1 .
                                                                              2.6845254E=01, DATA 170
              183
                     2,6326946E=01,
                                                           2,52695196-01,
182
                                        2,5801655E=01,
                                                                              2.4730681E=01, DATA
                                                                                                     171
              184
183
                     2.41852776-01,
                                        2.3633447E=01,
                                                           2,3075328E-01,
                                                                              2.2511057E=01, DATA
                                                                                                     172
              185
                                                           2.0782829E-01:
184
                     2,1940782E-01,
                                        2.1364656E=01,
                                                                              2.8195449E=01, DATA
                                                                                                     173
              186
                     1,96026926-01,
                                                           1.84017166-01.
185
                                        1.9004724E=01.
                                                                              1.7793826E-011
                                                                                                DATA
                                                                                                     174
              187
                     1.71812276-01,
186
                                        1.6564086E=01.
                                                           1.5942566E-01,
                                                                              1.53168426-011
                                                                                                DATA 175
              188
                                        1.4053406E=01,
1.1483119E=01,
                                                           1.0832429E-01,
187
                     1.4687067E=01,
1.2130718E=01,
                                                                              1.2775071E=01:
                                                                                                DATA 176
              189
188
                                                                                                DATA
                                                                                                     177
                                                                              1.0173803E=01/
189
                  PATA (BCSUN (1), 1=253, 288)/
9,5223930E=02, 6,8633483E=02,
                                                                                                     178
                                                                                                DATA
              191
                                                                              7.5379536E=02,
                                                           8,2018186E-02,
                                                                                                     179
                                                                                                DATA
              192
                       .8718951E=02,
191
                                                                              4.8619959E=021
                                        6.2037864E=02;
                                                           5,53377216-02,
                                                                                                DATA
                                                                                                     180
              193
192
                      ,1886110E-02,
                                        3.5137713E=02,
                                                           2.$376365E-02:
                                                                              2.1653623E=02.
                                                                                                DATA
                                                                                                     181
              194
                      .4821286E-02,
193
                                       8.0310928E=03,
-1.9173238E=02,
                                                          1.2347971E-03, =5.5658821E=03,
=2,5976379E-02, =3.2776758E=02,
                                                                                                DATA
              195
                                                                                                     183
195
                      ,9572665E-02,
                                       =4.6362336E=02,
              196
                    -3
                                                          =5.3143993E=02, =5.9915844E=02,
                                                                                                DATA 184
                    -6,6476134E-02,
-9.3567109E-02,
196
              197
                                       =7:3423178E=02; =8:0155170E-02; =8:4870384E=02;
                                                                                                DATA 185
              198
197
                                       =1:0024363E=01, =1,0689826E-01, =1.1352923E=01,
                                                                                                DATA
                                                                                                     186
              199
198
                    =1.2013497E-01, =1.2671380E=01, =1.3326409E-01, =1.3978414E=01/
                                                                                                DATA
                                                                                                     187
199
                  DATA (BCSUN 41), 1:289,324)/
=1:4627226E=01, =1:5272666E=01, -1.5914555E=01, =1.6552714E=01,
                                                                                                DATA
                                                                                                      188
              201
                                                                                                     189
                                                                                                DATA
              245
                    -1,7186941E-01, =1,7817042E-01, =1,8442814E-01, =1.9064069E-01,
201
                                                                                                DATA
                                                                                                     190
              243
202
                    -1.9680602E-01, -2.0292211E-01, -2.0898703E-01, -2.1499873E-01, DATA
                                                                                                     191
              204
                    -2,2095528E-01, -2,2685460E-01, -2,3269474E-01, -2.3847364E-01, DATA
                                                                                                     192
203
              2 y 5
204
                    -2,44189336-01, -2,4983983E=01, =2,95542314E-01, =2.6093728E=01, DATA
                                                                                                     193
                                       =2.7175017E=01, =2.77704503E=01, =2.8226293E=01, =2.9246u33E=01, =2.9743652E=01, =3.8232820E=01,
205
              246
                    -2.6438025E-01,
                                                                                                DATA
206
                    -2,8740206E-01,
                                                                                                     195
              2 u 7
              208
                    =3,07133736=01, =3,1185128E=01, =3,1647892E-01, =3.2101478E=01,
207
                                                                                                DATA 196
208
              249
                    -3.2545690E=01, -3.2980328E=01, -3.3405201E-01, -3.3820120E=01/
                                                                                                DATA 197
                  DATA (BCSUN 11), 1=329,360)/
=3,42248986=01, =3,4619351E=01, =3,5003300E-01, =3.5376570E=01, DATA
209
                                                                                                     198
              211
211
              212
                    -3.5738986E-01,
                                       =3.6090380E=01, =3.4430585E-01, =3.6759432E=01, DATA
                                                                                                      200
              213
312
                    =3.7076767E-01.
                                       -3.7382432E=Q1, =3.7676279E=Q1, =3.7958157E=Q1,
                                                                                                DATA
                                                                                                     201
213
                    -3.8227930E-01, -3.8485461E-01, -3.8730621E-01, -3.8963286E-01, DATA 202
214
                      .9183340E-01, -3.9390672E-01, -3.9585186E-01, -3.9766780E-01, DATA .9935360E-01, -4.0090843E-01, -4.0233134E-01, -4.0362152E-01, DATA
                                                                                                     203
```

```
217
                    =4.0477815E-01, =4.0580045E=01, =4.0668782E-01, =4.0743958E=01, DATA 205=4.0805532E-01, =4.0853464E=01, =4.0887726E-01, =4.8908295E=01, DATA 206
216
217
                    =4.0915158E-01,
                                                                                               DATA 207
                                       =4.0908312E=01, =4.0887754E-01, =4.0853491E=01/
                      [BCSUN [1],[=361,368]/
| 0805545E=01, =4.0743933E=01, =4.0668689E=01, =4.0579846E=01,
219
                                                                                               DATA 208
550
                                                                                               DATA 209
                    -4.0477457E-01,
                                       -4:0361568E=01: =4+0232236E-01: =4.8089529E=01/
221
              222
                                                                                               DATA
                                                                                                     210
                                        1, 361/
223
                                                                                               DATA
                                                                                                     210
                                                                                                            6
223
                                        9.8393165E=01,
                       .8393993E-01,
              231
                                                           9.3392755E-Q1,
                                                                              9.8392748E=01,
                                                                                               DATA
                                                                                                     211
                      .83931385-01,
                                                                              9.8396640E=01:
224
              232
                                        9.83939205=01.
                                                           9x8395090E=01,
                                                                                               DATA
                                                                                                     212
              233
                       ,8398588E-01,
225
                                        9:84009445-01:
                                                           9.8403728E-01,
                                                                              9.8406943E=01:
                                                                                               DATA
                                                                                                     213
                       ,8410630E-01,
226
              234
                                        9.8414821E=01.
                                                           9.8419546E-01,
                                                                              7.8424837E=01.
                                                                                               DATA
                                                                                                     214
                      ,84307165-01,
                                        9.84372075=01.
              235
227
                                                           9+84443316-01,
                                                                              9.8452122E=01:
                                                                                               DATA
                                                                                                     215
              236
                       ,8460554E-01,
                                        9.8469612E=01.
228
                                                           9x8479283E-01,
                                                                              9.8489546E=01,
                                                                                               DATA
                                                                                                     216
329
              237
                                        9.8511744E=01:
                       .8500376E-01,
                                                           9.8523617E-01,
                                                                              9.8535961E=011
                                                                                               DATA 217
              238
                       .8548753E-01,
                                        9.8561968E=01,
                                                           9,85755786-01,
                                                                                               DATA
230
                                                                              9.8589561E=01:
                                                                                                     218
231
                       .8603895E-01,
                                                                              9.8648823E=01/
                                          8618562E=01,
                                                           9,8633544E-01,
                                                                                               DATA 219
                  9,8664402E-01,
                                        37; 72;/
9.8680282E=01,
233
232
                                                                                               DATA 220
                                                                                                            6
              241
                                                           9 8 3696467E-01,
                                                                              9.8712949E=01,
                                                                                               DATA 221
                       8729765E-01.
              242
234
                                        9.8746937E=01.
                                                           9,8764489E-01,
                                                                              9.8782448E=01,
                                                                                               DATA
                                                                                                     222
              243
235
                       .88008375-01,
                                        9.8819683E=01:
                                                                              9.8858842E=011
                                                           9.8839006E-01,
                                                                                                     223
                       .8779174E-01.
               244
                                                           9,8921310E-01,
236
                                        9.8900000E=01,
                                                                                               DATA 224
                                                                              9.8943101E=01+
                       ,8$65342E=01,
              245
237
                                        9.8988006E=01.
                                                           9.90110546-01,
                                                                              9.9034484E=01,
                                                                                               DATA
                                                                                                     225
              246
                     9,9058235E-01,
9,9155965E-01,
238
                                        9:9082291E=01.
                                                           9.9106617E-01.
                                                                              9.91311865-01:
                                                                                               DATA 226
239
               247
                                        9.9180924E=01:
                                                           9x9206039E-01,
                                                                                               DATA 227
                                                                              9.9231277E=01;
                       .9256629E-01,
240
              248
                                        9.9282085E=01,
                                                           9x9307634E-01,
                                                                              9.9333255=01,
                                                                                               DATA 228
241
                       .9358977E-01;
                                        9.9384820E=01,
                                                           9x9410799E-01,
                                                                              9.9436934E=01/
                                                                                               DATA 229
                  DATA
                       (ASUN (1) 1 =
                                        73,108;/
9.9489775E=Q1,
242
                                                                                               DATA 230
                       ,9463250E-01,
243
                                                           9,9516527E=01,
                                                                              9.9543545E=01,
                                                                                               DATA 231
                       ,9570820E-01,
                                                           9:9626159E-01:
9:9739811E-01:
244
              252
                                        9.9598359E=01.
                                                                              9.9654227E=011
                                                                                               DATA 232
                       .96825405-01,
              253
245
                                        9.9711075E=01.
                                                                                               DATA 233
                                                                              9.9768723E=01,
246
               254
                       .9797781E-01,
                                        9.9826956E=01.
                                                           9,98562176-01,
                                                                              9.9885535E=01,
                                                                                               DATA
                                                                                                     234
              255
                       .9914873E=01,
247
                                        9.9944195E=01,
                                                           9.9973471E-01:
                                                                               .8000267E 00,
                                                                                               DATA 235
              256
248
                      1,00031765 00.
                                        1:0006072E 00.
                                                           1x0008953E 00:
                                                                              1.0011815E
                                                                                               DATA 236
                                                                                          000
249
              257
                      1,00146625 00,
                                        1:0017493E 00.
                                                           1.0020310E 00.
                                                                              1.0023114E
                                                                                               DATA 237
                                                                                          000
                      1.0025908E
1.0037037E
                                                           1 x 0 0 3 1 4 7 7 E
                                                                             1.9034257E
1.9045377E
               258
                                  00,
                                        1:0028695E 00.
250
                                                                                               DATA
                                                                       00.
                                                                                          00:
                                                                                                     238
               259
                                                           1.0042596E 00.
 251
                                        1.0039816E 00,
                                                                                          00/
                                 00,
                                                                                               DATA
                                                                                                     239
252
253
                       185UN (1), 1=109,1441/
.0048160E 00, 1.005094
                  DATA IRSUN
                                                                                               DATA 240
                                        1.0050941E
                                                    00,
                                                           1x0053721E 00.
                                                                              1.8056498E
                                                                                          001
                                                                                               DATA
                                                                                                     241
              262
                      1.0059269E 00,
254
                                        1.00620326 00.
                                                           1.00647945 00.
                                                                              1.0067523E
                                                                                               DATA
                                                                                          00:
                                                                                                     242
255
              263
                      1,00702456 00,
                                        1.0072947E 00,
                                                           1.0075625E 00,
                                                                              1.8078277E
                                                                                          000
                                                                                               DATA 243
256
                      1,00808985 00,
              264
                                        1.0083486E
                                                    00,
                                                           1,0086038E 00.
                                                                              1.8088548E 00.
                                                                                               DATA
                                                                                                     244
                       .0091019E
              265
                                                           1:00958446
                                  000
                                        1.0093451E
                                                    00
                                                                       00,
                                                                                               DATA 245
                                                                              1.8098198E
                                                                                          90,
258
                     1,0100516E 00:
              246
                                                           1:0105055E
                                                                              1.0107233E
                                        1.0102801E
                                                     00.
                                                                       00.
                                                                                          00 .
                                                                                               DATA 246
259
                       .0109486E 00,
                                                           1,0113820E
                                                                       00,
                                                                              1.0115956E
               267
                                        1.0111664E
                                                     00.
                                                                                          100
                                                                                               DATA
                                                                                                     247
              268
                                                                              1.0124291E
260
                      1,0118071E 00,
                                        1:0120166E 00.
                                                           1.0122239E 00.
                                                                                               DATA 248
                                                                                          00+
              269
                      1.0126320E 00.
                                        1.0128325E 00.
                                                                              1.0132255E
261
                                                           1.0130304E 00.
                                                                                          00/
                                                                                               DATA 249
                  262
263
                                        1,0136060E
                                                                                                     250
                                                                                               DATA
               271
                                                     00,
                                                                                          00,
                                                           1,0137909E 00,
                                                                              1.8139719E
                                                                                               DATA
              272
                      1,0141485€
264
                                  00,
                                        1:0143204E
                                                     00.
                                                           1.0144873E QQ.
                                                                              1.0146487E
                                                                                          000
                                                                                               DATA 252
265
              273
                                  00.
                      .0148045E
                                         1.0149549E
                                                           1 × 0150995E
                                                                              1.0152384E
1.0157425E
                                                     00.
                                                                        00.
                                                                                               DATA
                                                                                          00,
                                                                                                     253
                                                           1,0156236E
                       .0153719E
                                        1:0155002E
                                                     00,
                                  00,
                                                                       000
                                                                                               DATA
                                                                                                     254
                                                                                          00,
              275
                                                                       00.
267
                      1,01585716 00,
                                        1:0159676E
                                                     00.
                                                           1x0160742E
                                                                              1.0161772E
                                                                                          900
                                                                                               DATA 255
              276
268
                      1,0162766E
                                 00,
                                        1:0163727E 00:
                                                           1 x 0 1 6 4 6 5 4 E
                                                                       00 .
                                                                              1.0165547E
                                                                                               DATA 256
                                                                                          00,
                                  00,
                                        1.0167235E
                                                           1.0168027E 00.
1.0170819E 00.
                                                                       000
269
               277
                       .0166408E
                                                     00,
                                                                              1.8168783E
                                                                                               DATA 257
                                                                                          00.
                       ,0169502E
270
              278
                                 00,
                                        1.0170182E 00.
                                                                              1.0171413E
                                                                                          00.
                                                                                               DATA 258
              279
271
                       .0171959E 00,
                                        1.0172453E
                                                           1 0172893E 00.
                                                                              1.0173274E
                                                     00,
                                                                                          00/
                                                                                               DATA 259
                                       181;216,/
1:0173855E 00,
272
                  DATA (RSUH 61) 1 =
                                                                                               DATA
                                                                                                     260
273
                       .0173595E 00.
              281
                                                                              1.8174182E 00.
                                                                                               DATA
                                                           1 x 0174052E 00,
                                                                                                     261
              282
                     1,0174250E
1,0173949E
274
                                 00,
                                        1:0174259E 00:
                                                           1 x 0174209E 00.
                                                                              1.0174105E
                                                                                          00:
                                                                                               DATA
                                                                                                     262
                                  00,
                                        1:6173744E
                                                           1.0173493E
 275
               283
                                                                              1.0173198E
                                                     000
                                                                        00,
                                                                                          00:
                                                                                               DATA
                                                                                                     263
              284
276
                                  00,
                                        1:0172488E
                                                     00,
                                                           1,01720758
                        0172863E
                                                                        00.
                                                                              1.0171626E
                                                                                          001
                                                                                               DATA
                                                                                                     264
277
              285
                                                           1,0170070E
1,0167504E
                       .0171142E
                                  00.
                                         1.0170623E
                                                     00.
                                                                                8169483E
                                                                                               DATA
                                                                                                     265
                                                                                          00.
                       .0168860E
                                  00,
                                         1:0168201E
                                                     000
                                                                        00.
                                                                              1.8166768E
                                                                                               DATA
                                                                                          00.
                                                                                                     266
                                                                       00:
              287
                      1,0165989E
                                 00.
                                                     00.
                                                           1.0164293E
                                                                                               DATA 267
279
                                        1:0165165E
                                                                              1.0163368E
                                                                                          00.
                       .0162390E 00,
               288
280
                                        1.0161356E 00,
                                                           1:0160263E 00,
                                                                              1.815 109E QO.
                                                                                               DATA 268
              289
                                        1:0156625E 00.
                      1.0157896E
                                                           1 v0155299E 00,
281
                                 00.
                                                                              1.0153919E 00/
                                                                                               DATA 269
                                       217:252,/
1.0151010E
282
283
                    TA (RSUN $1).1=
1.0152488E 00,
                                                                                               DATA 270
              291
                                                    00,
                                                           1.0149488E 00,
                                                                                          00.
                                                                                               DATA
                                                                                                     271
284
              292
                      1,0146325E
                                  00,
                                                           1,0143019E 00,
                                        1.0144688E 00,
                                                                              1.0141319E
                                                                                               DATA
                                                                                          00.
                                                                                                     272
                     1.0139590E 00.
              293
                                                           1.01360536
285
                                                                       000
                                        1:0137834E 00:
                                                                              1.9134247E
                                                                                               DATA
                                                                                                     273
                                                                                          901
                       ,0132418E 00,
              294
                                                                       00.
286
                                        1:0130563E 00,
                                                           1,01286848
                                                                              1.0126780E
                                                                                          001
                                                                                               DATA
                                                                                                     274
                       .0124848E
                                                           1 x 0 1 2 0 8 9 1 E
1 x 0 1 1 2 5 3 3 E
287
              295
                                        1:0122886E
1:0114684E
                                  00,
                                                                                               DATA
                                                     00,
                                                                              1.8118861E
                                                                       00,
                                                                                          900
                                                                                                     275
               296
                                  00,
                                                     00.
                                                                        00.
                                                                              1.0110335E
                                                                                          00.
                                                                                               DATA
```

```
289
               297
                       1.0108092E 00.
                                           1.01058068
                                                        00,
                                                               1 v 0103477E 00.
                                                                                   1.8101105E 00, DATA 277
               298
                                                                                   1.0091257E
                       1.0098694E 00,
                                                        00
                                                               1,0093767E 00.
                                           1:0096247E
                                                                                                 900
                                                                                                      DATA
291
               299
                                                        00,
                        .0088721E 00.
                                           1.0086160E
                                                               1 # 8 0 8 3 5 8 0 E 30 .
                                                                                   1.0080981E 00/
                                                                                                      DATA 279
292
                        (RSUN (1):[+253,288]/
:0078368E 00: 1:0075743E
                    ATA (RSUN
                                                                                                           280
                                                                                                      DATA
                                                                                                                    6
293
               301
                                                        00,
                                                                                   1.00704668 00,
                                                               1,0073108E 00,
                                                                                                      DATA 281
               303
                       1.0067817E
1.0057176E
                                                               1,00625058
294
                                           1.0065164E
1.0054501E
                                                        004
                                                                                   1.0059844E
1.0049120E
                                                                                                 000
                                                                                                            282
                                    00.
                                                                            00 :
                                                                                                      DATA
                                                                            00,
295
                                                                                                      DATA
                       1.0046410E
1.0035379E
                                           1:0043683E
                                                        000
                                                               1 ¥ 0 0 4 0 9 3 8 E
296
               344
                                    00.
                                                                            000
                                                                                   1.8038169E
                                                                                                      DATA
                                                                                                00.
                                                                                                            284
               305
                                                               1,00297328 00,
297
                                   00.
                                           1:0032566E
                                                                                   1.0026875E
                                                                                                000
                                                                                                      DATA 285
                                                        00.
                                    00,
                                                                                   1.0015274E
               306
                                                               1 v 0 0 1 8 1 9 5 E
298
                        .0023998€
                                           1:0021104E
                                                                            00,
                                                                                                      DATA
                                                        00.
                                                                                                000
                                                                                                            286
                        :0012345E
                                                               1:0006470E 00:
9:9947527E-01:
                                                                                   1.0003532E 00,
9.9918488E=01,
               347
                                    00.
                                           1.00094095
                                                        00.
279
                                                                                                      DATA 287
               308
                        .0000597E
300
                                    00,
                                            .9976698E=01.
                                                                                                      DATA
                                                                                                            288
301
               349
                        .9889604E=01,
                                            .9860895E=01,
                                                               9.9832381E-01,
                                                                                   9.9804087EE01/
                                                                                                      DATA
                                                                                                            289
                        (#SUN 41), 1+289, 324,/
.9775995E=01, 9.9748093E=01,
302
                                                                                                      DATA 290
                                                                                                                    6
                        .9775995E-01,
               311
                                                                                   9.9692807E=01,
303
                                                               9,9720366E-01,
                                                                                                      DATA 291
                        .9665385E=01,
                                                                                   9.9583677E=01:
9.9475390E=01:
               312
                                           9.9638075E=01.
                                                               9,96108498-01,
                                                                                                      DATA
804
                                                                                                            292
                        .9556555E-01,
                                           9.9529471E=01.
                                                               9,9502421E-01,
803
               313
                                                                                                      DATA
                                                                                                            293
               314
                                                               9,9394584E-01,
                                           9.9421456E=01.
                                                                                   9.93677976=01,
                                                                                                            294
306
                        .9448397E=01.
                                                                                                      DATA
               315
                       9.9341123E-01,
9.9236095E=01,
                                                                                   9.9262041E=01;
9.9159960E=01;
                                           9.9314588E=01,
                                                               9.9288217E-01,
                                                                                                      DATA
                                                                                                            295
807
                                                               9.91850236-01,
                                                                                                      DAYA
308
               316
                                           9.9210411E=01.
                       9.91352576-01,
               317
                                           9.91109446-01.
809
                                                               9x9087047E-01:
                                                                                                      DATA
                                                                                   9.9063607E=01.
                                                                                                            297
               318
                        .9040610E-01.
                                           9.9018052E=01,
                                                               9,8995929E-01,
                                                                                   9.8974243E=01.
310
                                                                                                      DATA
                                                                                                            298
               319
                       9.8952959E-01,
                                                               9.8911493E-01.
                                           9.8932052E=01.
                                                                                   9.8891246E=01/
                                                                                                      DATA
                                                                                                            299
811
312
813
                       A (RSUN $1) . I
9.8871303E-01,
                                41):1=329,360)/
03E=01, 9,8851644E=01,
                   DATA
                                                                                                      DATA
                                                                                                            300
               321
                                                               9,88322566-01,
                                                                                   9.8813118E=01,
9.8739172E-01,
                                                                                                      DATA
                                                                                                            301
                                                               9 8 7 5 7 2 5 9 E - 01 .
314
               322
                        .8794237E=01,
                                           9.8775616E=01.
                                                                                                      DATA
                                                                                                            302
                       9.8721373E-01,
315
               323
                                           9.8703878E=01.
                                                               9 $ 8686709E-01:
                                                                                   9.8669884EeQ1.
                                                                                                      DATA
                                                                                                            303
                        .8453433E-01,
                                                               9 x 8621771 E-01.
                                                                                   9.86066086-011
316
               364
                                           9:8637386E=01.
                                                                                                      DATA
                                                                                                            304
                        .8591944E-01,
317
               325
                                                               9,8564237E-01,
                                            .8577810E=01.
                                                                                                      DATA
                                                                                   9.8551270E=01,
                                                                                                            305
                        .8538905E-01.
318
               326
                                           9.8527152E=01,
                                                               9x85160105-01,
                                                                                   9.8505504E=01:
                                                                                                      DATA 306
319
320
               327
                        .8495586E-01,
                                           9.8486236E=01,
9.8453896E=01,
                                                               9.8477422E-01,
                                                                                   9.8469105E=01,
9.8440415E=01,
                                                                                                      DATA
                                                                                                            307
                                                               9 x 8 4 4 6 9 5 4 E - 01 ,
                        .8461272E-01,
                                                                                                      DATA
                                                                                                            308
               329
                       9.8434277E=01:
                                           9.8428529E=01.
                                                               9.8423166E-01,
                                                                                   9.8418178E=01/
                                                                                                      DATA
                                                                                                            309
321
                   9.8413575E-01, 9.8409360E=01,
322
                                                                                                      DATA
                                                                                                            310
               331
                                                               9-8<055416-01,
                                                                                   9.8402127E=01,
                                                                                                      DATA
                                                                                                            311
                       9.8399139E-01,
                                           9.8396596E=01.
824
                                                               9,8394520E-01,
                                                                                   9.8392923 == 01/
                                                                                                      DATA
               352
                                                                                                            312
                        (RAMOON(1):1=
.9262257E 00,
825
826
                                           1, 361/
4.1456257E
                   DATA
                                                                                                            313
               341
                                                               4.3716755E 00,
                                                        00,
                                                                                   4.6017005E 00.
                                                                                                      DATA
                        .8320243E 00,
               342
                                                               5 2802947E 00,
827
                                           5.0590464E
                                                        00
                                                                                   5.4950165E 00.
                                                                                                      DATA
                                                                                                            314
                        .7042153E 00.
828
               343
                                           5.9103500E 00.
                                                               6,1169520E 00,
                                                                                   4.5094914E=02,
                                                                                                      DATA
                                                                                                            315
               344
                       2.65772576=01,
                                                               7,51535918-01,
329
                                           5.0020875E-01.
                                                                                   1.8199767E 00.
                                                                                                      DATA
                                                                                                            316
               345
                       1.3012705E 00,
                                                               1,8660258E 00,
330
                                           1,5867303E 00,
                                                                                   2.1311788E 00,
                                                                                                      DATA
                                                                                                            317
                                                               2.8273089E 00,
3,6489778E 00,
                       2.3788143£ 00,
3.2396933£ 00,
                                           2.6097481E
331
               346
                                                        00.
                                                                                   3.0358215E
                                                                                                      DATA
                                                                                                00.
                                                                                                            318
               347
                                                                                                            319
                                           3.4429523E
                                                        00.
                                                                                   3.8602468E
                                                                                                      DATA
332
                                                                                                 00.
               348
                       4.0780343E 00.
                                                               4.5308340E 00.
333
                                           4.3021402E 00.
                                                                                   4.7612216E 00:
                                                                                                      DATA
                                                                                                            320
               349
                       4.9900503E 00.
                                           5.2146716E 00.
                                                               5.4337639E 00,
                                                                                   5.6475902E 00/
334
                                                                                                      DATA
                                                                                                            321
                   DATA (RAMOON&I); [=
5.8578619E 00,
335
836
                                           37, 72,/
6.0674140E 00,
                                                                                                      DATA
                                                                                                            322
                                                                                                                    6
               351
                                                               6,2798446E 00,
                                                                                   2.1594985E=01,
                                                                                                      DATA
                                                                                                            323
               352
                                           6.8959696EG01,
337
                        .4595623E=01
                                                               9 4766763E-01,
                                                                                   1.2176810E 00,
                                                                                                      DATA
                                                                                                           324
               353
                        4933431E
                                                               2 ¥ 0 3 0 1 3 9 1 €
                                    00,
                                                                            00 .
                                                                                   2.2797165E
338
                                           1.7666221E
                                                        00
                                                                                                      DATA
                                                                                                 00:
                                                                                                            325
                        5147694E
               354
                                                               2,95087138
339
                                    00.
                                           2.7373483E
                                                                            00.
                                                                                   3.1591684E
                                                        00.
                                                                                                      DATA
                                                                                                            326
                                                                                                 000
                        .3659052E
.2270713E
               355
840
                                    00,
                                           3.5742357E
                                                        00.
                                                               3x7865318E
                                                                            00.
                                                                                   4.9041212E
4.9112150E
                                                                                                      DATA
                                                                                                            327
                                                                                                 004
               356
                                    00,
                                                        00,
                                                               4,6830826E
341
                                           4.4541460E
                                                                            00 .
                                                                                                      DATA
                                                                                                            328
                                                                                                 000
               357
                        :1362575E 00.
                       5
342
                                           5.3569531E
                                                        00,
                                                               5 5733826E 00,
                                                                                   5.7869359E
                                                                                                00.
                                                                                                      DATA 329
                                           6.2160344E 00.
5.8951482E=01,
               358
                       6.0000789E 00,
6.3205145E-01,
                                                               1,3521633E-01,
1,1572841E 00,
343
                                                                                   3.8744714E=01,
1.4296523E 00/
                                                                                                      DATA 330
344
                                                                                                      DATA
                                                                                                            331
                        (RAMOON 1 ) . 1 : 6992279E 00,
345
$46
                                           73,1081/
1,9594557E
                    ATA
                                                                                                            333
                                                                                                      DATA
                        .6992279E
                                                        00,
               361
                                                               24509200E 00'
                                                                                   2.4401033E 00,
                                                                                                      DATA
847
               362
                       2.6418806E 00,
                                           2.8751182E 00,
                                                               3.0834467E 00.
                                                                                   3.2903734E 00.
                                                                                                      DATA 334
                       3,4989215E 00,
                                                               3,92885186
348
               363
                                           3.7113434E 00.
                                                                            00.
                                                                                   4.1514152E 00.
                                                                                                      DATA
                                                                                                            335
                        .3777431E
,2753134E
                                                               4 8323915E 00.
5,7031151E 00.
849
                                           4.6055918E
5.4905267E
                                                                                   5.8560015E 00,
5.9156160E 00,
                                                        00.
                                                                            00.
                                                                                                      DATA
                                                                                                            336
               365
                                    00,
850
                                                                                                      DATA
                                                        00 4
                                                                                                            337
                        :1313500E
                                                               3 + 0 432923E-01,
                                                                                                      DATA 338
851
               366
                                   00,
                                           7.0895639E=02.
                                                                                   5.9128188E=Q1,
               367
                        ,1245285E-01,
                                                               1,86306738
352
                                           1.0851635E
                                                        000
                                                                                   1.6377763E 00.
                                                                                                      DATA
                                                                            00.
                                                                                                            339
                       1.9018475E 00,
                                                               2+3851294E
853
               368
                                           2:1511216E
                                                                                   2.6060769E
                                                                            001
                                                                                                      DATA
                                                        00.
                                                                                                 00 .
                                                                                                            340
                                           3.0235254E
09.1441/
3.8597137E
               369
                                                               3-2278455E
854
                       2.8175451E
                                   00.
                                                        00
                                                                            000
                                                                                   3.4338204E 00/
                                                                                                      DATA
                                                                                                            341
                        (RAMOON(1), 1:
.6439674E 00,
855
                   DATA
                                                                                                            342
                                                        00,
               371
                                                               4,0811378E 00,
                                                                                   4.3068929E 00,
                                                                                                      DATA
                        .5344892E
                                                               4,9837940Ê
                                   00,
                                                                            00,
857
               372
                                           4.7609728E 00.
                                                                                   5.2015204E 00,
                                                                                                           344
                                                                                                      DATA
               373
                        ,4141673E
858
                                           5.6231602E
                                                               5 + $311027E
                                                                            00,
                                                                                                      DATA 345
                                    00.
                                                        00,
                                                                                   6.0414991E
                                                                                                000
               374
                                                               4 4 4 5 9 4 5 5 5 E - 01 ,
1 4 5 5 2 0 9 2 3 E 00 ,
859
                        ,2584734E
                                           2:0320044E=01:
1:2665367E 00:
                                                                                   7.8569841E001;
1.8279834E 00;
                                   00,
                                                                                                      DATA
                                                                                                            346
               375
                        .81198286-01,
                                                                                                      DATA
860
                                                                                                            347
               376
                       2.0877281E 00,
                                                               2,95536156 00,
                                                                                   2.7690249E 00. DATA 348
661
                                           2.3295512E 00,
```

```
362
               377
                      2,97503576 00,
                                          3.1777681E 00:
                                                             3 # $810854E 00.
                                                                                 3.5880678E 00: DATA 349
               378
                      3.8007246E
363
                                   00,
                                          4.0196828E
                                                             4824398916
                                                       900
                                                                          00:
                                                                                 4.4712421E
                                                                                               00.
                                                                                                    DA7A 350
864
                      4.6981968E
                                           .9217089E 00,
                                                             5+1396382E 00,
                                                                                 5.4513637E 00/
                                                                                                   DATA 351
                                         45,180,/
5.7613614E 00,
865
                        (RAMOQN&I) : Is
                                                                                                    DATA 352
              381
                       .5978385E 00,
                                                             5 9652752E 00.
$66
                                                                                 6.1737020E 00.
                                                                                                   DATA 353
                       .0809371E-01,
.1412590E 00,
867
                                                             5488689116-01:
               382
                                          3.3952975E=01.
                                                                                                   DATA
                                                                                 8.5690016E=01:
               383
                                          1.4332281E 00e
                                                             1.7214760E
                                                                                 1.9961264E 00,
                                                                                                   DATA 355
369
               384
                                                                                 2.9231358E 00: DATA 356
                      2.2921762E 00.
                                          2.4896467E 000
                                                             2471177226 00.
                       ,1285014E 00,
               385
                                                             3,53796208
370
                                                                          00 .
                                          3.3322294E
                                                                                 3.2483954E 00,
                                                       00,
                                                                                                   DATA 357
                      3,9647752E 00,
4,8654510E 00,
                                                             4.4132906E 00.
5.2984215E 00.
               386
871
372
                                          4:18702256
                                                       002
                                                                                 4.6409615E QO.
                                                                                                   DATA 350
                                         5.0852039E 00.
                                                                                 5.5053104E 00,
                                                                                                   DATA 359
               388
                      5,7075413E 00.
                                          5.9079482E 00.
                                                             6-1102397E 00.
                                                                                 3.5577491E=02.
373
                                                                                                   DATA
                                                                                                         360
874
                      2.5503468E-01,
                                          4.8993762EG01,
                                                             7-4349377E-01:
                                                                                 1.0150254E 00/ DATA 361
875
876
                  DATA (BAMOON&1) + 18
                                         81,216)/
1,5931698E
                                                                                                    DATA
                                                                                                         362
               391
                        ,3022128E
                                                             1-87758715
                                   00,
                                                       00 .
                                                                          000
                                                                                 2.1471343E 00.
                                                                                                         363
                                                                                                    DATA
               392
877
                      2,39855706
                                                             2.9542118E 00.
                                   00.
                                          2:6330232E
                                                       000
                                                                                 3.8666868E
                                                                                                   DATA
                                                                                              000
                                                                                                         364
                      3.2749461E 00.
                                          3.4829349E
                                                       00.
                                                                                 3.9093107E
878
               393
                                                             3-6937405E 00,
                                                                                              000
                                                                                                   DATA 365
              394
879
                       .1301816E 00,
                                                                                 4.8083831E 00.
                                          4.3553419E
                                                      00,
                                                             4.58243396 00,
                                                                                                   DATA 366
                      5.0302994E 00,
                                         5.2462902E 00.
6.0619376E 00.
                                                             5,45589188 00,
880
               395
                                                                                 5.6600848E 00.
                                                                                                   DATA 367
               396
                       .8610617E 00.
881
                                                             6 2664948£ 00,
                                                                                 1.9574968EaQ11
                                                                                                   DATA 368
582
883
               397
                       .2031804E-01,
                                                             9.1820061E-01.
2.0309078E 00.
                                                                                 1.1913595E
2.2908099E
                                          6.60583538=01,
                                                                                              00.
                                                                                                   DATA 369
              398
                                          1,75676546 00.
                                                                                                   DATA
                                                                                              00.
                                                                                                         370
                                                                                 3.2017680E
               399
                      2.53518836 00,
                                          2.76599055 00,
                                                             2 9868270E 00.
384
                                                                                              00/
                                                                                                   DATA 371
                  DATA (RAMOON61), 1+217,252)/
3,4146269E 00, 3,6287407E
385
886
                                                                                                   DATA
                                                                                                         372
                                                             3.8496652E 00,
               401
                                                       00,
                                                                                 4.0669280E DO.
                      4.29187978 00,
               402
387
                                          4.5188161E 00;
                                                             4,74523328 00,
                                                                                 4.9685600E 00.
                                                                                                   DATA 374
                       .1868986E 00,
                                                       004
                                                                                 5.8108784E 00:
3.6873097E:01;
588
               443
                                          5.3995087E
                                                             5,60693636 00,
                                                                                                   DATA 375
                       .0139359E 00.
889
               404
                                          6.21935886 00;
                                                             1,4760300E-01,
                                                                                                   DATA
                                                                                                         376
               405
                        .02733136-01,
                                                             1.1137827E 00.
390
                                          8.5135783E=01,
                                                                                 1.3858489E 00,
                                                                                                   DATA 377
                                                                          00,
391
               406
                       .6406207E 00,
                                          1.9305508E 00.
                                                             2419005248
                                                                                                   DATA 378
                                                                                 2.4368402E
                                                                                              00,
                       ,6716437E 00,
                                                                                                   DATA 379
                                                             3,1166059E 00,
3,9939199E 00,
392
               407
                                                                                 3.3336022E 00.
                                          2.8970925E 00.
                       ,5909856E 00,
              448
893
                                                                                 4.2200286E 00.
                                          3.7707900E 00.
                                                                                                   DATA 380
894
               409
                      4.4476367E 00.
                                          4:6745537E 00:
                                                             4,89852488 00,
                                                                                 5.1178849E 00/
                                                                                                   DATA 381
                  DATA (RAMOON& 1)/1+253,288)/
5,3319939E 00, 5.5413706E 00,
895
                                                                                                    DATA 382
896
               411
                                                             5.7475906E 00.
                                                                                 5.9530729E 00,
                                                                                                   DATA 383
597
                                          9.10748325002.
                                                             3.1350802E-01.
1.8229000E 00.
                                                                                 5.4775394E=01:
1.5929257E 00:
                      6.16084048 00,
                                                                                                   DATA
                                                                                                         384
               413
                      7,9521190E-01,
$98
                                          1:05490298 00:
                                                                                                   DATA
                                                                                                         385
                      1.8582610E 00.
2,8152187E 00,
               414
                                         2:1139410E 00:
3:0342548E 00:
                                                      00:
599
                                                                                 2.5908583E 00, DATA 386
                                                             2,35791708 00:
               415
400
                                                             3,2512814E 00,
                                                                                 3.4691498E QO, DATA 387
601
                      3.6898529E 00.
               416
                                                                                 4.3708302E 00, DATA 388
                                          3.9142218E 00,
                                                             4,1417732E 00,
                       ,5989881E 00,
               417
402
                                          4.8238248E 00.
                                                                                 5.2577002E 00:
                                                             5.0436009E 00.
                                                                                                   DATA 389
               418
                                                             5 $ $ 7 7 3 1 8 7 E
                                                                                 6.8846222E 00.
7.2274096E=01/
403
                        4467372E
                                   00,
                                          5.6724204E
                                                                                                   DATA 390
                                                      00,
                                                                          00.
                      1.4709324E=02,
                                                             4.7302554E-01,
                                          2.3755080E=01,
404
                                                                                                   DATA 391
                     TA (RAMOQN(1):1
9,8570479E-01,
                                       1,2575892E
405
                                                                                                    DATA 392
               421
                                                       00,
406
                                                             1.53135028 00,
                                                                                 1.7994398E 00,
                                                                                                   DATA 393
407
                      2.03636876 00.
               422
                                          2:2999993E 00:
                                                             2x$312268E 00,
                                                                                 2.7528693E QQ, DATA 394
               423
408
                      2,96858056 00,
                                          3.1820787E 00.
                                                             343966302E 00,
                                                                                 3.6146464E 00, DATA 395
              424
                                                             4.29411796
609
                      3.8373259E
                                   00.
                                          4,0643954E
                                                       00.
                                                                          00.
                                                                                 4.5237171E
                                                                                                   DATA 396
                                                                                              004
                       ,75017805
                                                             5x1854634E
410
                                   00,
                                          4,9711309E
                                                       000
                                                                          00.
                                                                                 5.3935054E 00.
                                                                                                   DATA 397
                      5,5968820E 00.
                                                                                 6.2089280E 00:
8.8483180E=01:
               426
                                          5.7982335E 00.
                                                             6x0009466E 00.
411
                                                                                                   DATA 398
               427
                      1,4315887E-01,
412
                                          3,739/303E=01.
                                                             6+2106165E-01,
                                                                                                   DATA 399
               428
                      1.1618112E 00,
2.2423790E 00,
                                          1:4444738E 00:
                                                             147233703E 00,
                                                                                 1.99063425 00,
413
                                                                                                   DATA 400
                                          2.4787632E 00,
                                                             2,70263068 00,
                                                                                 2.91804618 00/
614
                                                                                                   DATA 401
                      A (RAMOONEL)
                                        325,360./
3,3402602E
415
                                                                                                    DATA 402
               431
                       ,1292897E 00,
                                                             3,3540744E 00,
                                                                                 3.2727039E 00.
                                                                                                   DATA 403
616
                                                       00.
               432
417
                      3.9966386# 00.
                                          4.22471598
                                                       00.
                                                             4.45433016
                                                                                 4.4821325E 00:
                                                                          00.
                                                                                                   DATA 404
               433
                      4.9050192E 00.
5.7301272E 00.
                                   00.
                                          5:1209973E 00:
5:9274886E 00:
418
                                                             5x32960776
                                                                                 5.5318946E 00:
5.2317245E=02:
                                                                                                   DATA 405
                                                                           00.
                                                             6-1278348E 00.
419
                                                                                                   DATA 406
               435
                                         5.0743400E-01.
1.6082189E 00.
                                                             7 4 6 1 7 3 0 4 1 E - 0 1 .
1 x 8 8 9 8 4 2 3 E 0 0 .
                                                                                 1.0341788E 00,
2.1569484E 00,
420
                      2.7185243E-01,
1.3195081E 00,
                                                                                                   DATA 407
               436
                                                                                              000
                                                                                                   DATA
                                                                                                         408
                                                             2#8638899E 00:
                      2.40696455
                                          2.6413696E QO.
                                                                                 3.9790059E 00.
3.9404729E 00.
422
               437
                                   00,
                                                                                                    DATA 409
                      3.2910582E 00,
4.1656665E 00,
               438
                                                             3.7197609E 00.
423
                                          3.5037446E 00:
                                                                                                   DATA 410
               439
                                          4.39355228
                                                                                 4.8453966E 00/
424
                                                             4,0212032# 00,
                                                                                                    DATA 411
                                                      000
                  DATA (RAMOUNII) 11.361.368,/
5.0435530E 00, 5.2743903E 00,
425
                                                                                                    DATA 412
               441
                                                             5,4781197E 00.
                                                                                 5.6762863E 00,
                                                                                                    DATA
427
               442
                        .87147466 00,
                                          6.0670382E 00;
                                                             6.2669036# 00.
                                                                                 1.9220380E=01/
                                                                                                    DATA
                                                                                                         414
                                                                                                    DATA 414
DATA 415
                       (8CMOON41); [ + .78985026-01,
                                        *-4.1903023E-01,
               451
                                                            =4.4071419E-01,
                                                                               -4.4239708E-01,
                                                            149400469E-01
               452
                       .2348881E-01,
430
                                         =3.8466371E=01.
                                                                                =2.3557062E=01.
                                                                                                    DATA 416
               453
                     -1.7127786E-01.
                                         97.8397205E=02.
631
                                                                                 1.1816810Ec01/
                                                                                                    DATA 417
432
               454
                      2.13416128-01,
                                          2,9988632E=01,
                                                             3-7139361E-01,
                                                                                 4.2124538E=01/
                                                                                                   DATA 418
                        43450566-01,
                                          4.3458230E=01.
1.5097797E=01.
                                                             3,9526432E-01, 3.8011600E-01,
5,3223697E-02, -4.7681224E-02,
               455
                                                                                                   DATA
433
                                                                                                          419
434
               456
                      2.4617799E-01,
                                                                                                   DATA 420
```

```
-1.4156317E-01, -2.2715631E-01, -3.0174243E-01, -3.6287898E-01, DATA 421
              457
435
              458
                      .0824197E-01,
436
                                      -4.3574570E-01, -4.6371715E-01, -4.8125242E-01,
                                                                                               DATA 422
437
              459
                    -3.9848502E-01, -3.4668137E-01, -217813100E-01, -1.9591508E-01/
                                                                                               DATA 423
                   TA (8CMOON(1), 1: 37, 72)/
-1.0366988E-01, -5.4267507E=03,
438
                                                                                               DATA 424
                                                                                                            6
                                                          9,44436658-02,
439
                                                                             1.91195366201,
                                                                                               DATA
                                                                                                     425
                     2,79632158-01,
440
              462
                                       3.5410865E=Q1,
                                                          4 4 0 8 5 0 2 5 7 E = 01 .
                                                                             4.3846453F=01,
                                                                                               DATA 426
441
              463
                      .39621876-01,
                                        4.1172891Eq01.
                                                          3-97507246-01,
                                                                             2.8220963E=01, DATA 427
                                                         -5x7534319E-03: -1.8305513E-01: DATA 428
442
              464
                                       9.43647195=02:
                     1,923:6306-01,
                    -1,9344329E-01,
443
              465
                                      -2.7354635E-01:
                                                         9344093203E=01, 93.9197689E-01, DATA 429
                      .2584366E-01,
                                                                                               DATA 430
444
              466
                                      =4.4057786E=01,
                                                         =4,3528014E-01, =4.8987058E=01,
              467
                                                         =2 - 2537895E-01,
445
                   =3
                      .65165576-01,
                                                                            2.9562457E=01.
                                      -3.0284810E=01.
                                                                                               DATA 431
                                        6.30485655=02:
446
              468
                    -3,8279797E-02,
                                                          1 4 6 2 9 2 8 3 8 E - 01 .
                                                                                               DATA 432
              469
447
                     3.35014505-01,
                                                          4+3057969E-01,
                                        3.95052505=01:
                                                                             4.3836846E=01/
                                                                                               DATA 433
                 DATA (BCHOON41).1* 73,108,/
4,1795634E-01, 3.7173964E-01,
448
                                                                                               DATA 434
                                                                                                            6
449
              471
                                                          3x0424525E-01,
                                                                             2.2106244E=01,
                                                                                               DATA 435
                      ,27945946-01,
              472
450
                                       3.0324169E=02, =6x8899313E
                                                                        ., =1.5937245E=01,
                                                                                               DATA 436
              473
                    -2,43260496-01,
                                      =3.15209756=01,
                                                         *3 x 7 2 3 4 7 4 5 E - 01, =4. $23 4002 E = 01,
                                                                                               DATA 437
451
                    -4.3350593E-01.
              474
                                                         =4x1658241E=01, =3.2917826E=01,
                                      94,3494042E001
                                                                                               DATA
                                                                                                     438
453
              475
                    -3.2416091E-01,
                                                         -1-976635E-01, =7.5972697E-02,
                                      -2,5352281E=01,
                                                                                               DATA 439
                                       1:25470665-014
4:19763175-014
                     2,40299338-02,
              476
                                                          2 # 2 2 3 3 2 0 6 E - 01 .
                                                                             3.08497406-011
454
                                                                                               DATA 440
                      76327416-01,
              477
455
                                                           4.34748755-01,
                                                                              4.2052066E=01,
                                                                                               DATA 441
                      ,7964646E-01,
                                        3.1698097Ec01.
              478
                                                          2-3827944E-01,
                                                                             1.4916466E-01,
456
                     3
                                                                                               DATA 442
              479
                      .4730843E-02,
                                      04.0532154E002,
497
                                                         =1 x 3259001E-01, =2.1773131E=01/
                                                                                               DATA 443
                 DATA (@CMOQN([], [=109,144]/
-2,92501176-01, -3,5373865E-01, -3,9872190E-01, -4.2539091E-01,
458
                                                                                               DATA 444
                                                                                                            6
              481
                                                                                               DATA 445
                   -4.3257060E-01, -4.2008775E-01, -3.8871014E-01, -3.3993154E-01, -2.7871466E-01, -1.9831970E-01, -1.1029729E-01, -1.4659752E-02,
460
              482
                                                                                               DATA 446
              483
461
                                                         =1+1029729E-01, -1.4659752E=02, DATA 447
662
              484
                     8.48091796=02,
                                                          2474255735-01.
                                       1.83200146=014
                                                                             3.5056611E=01, DATA 448
              485
                      .0451222E=01.
                                                                             3.8973461E=01,
463
                                        4.3002816E=01,
                                                          4-2452750E-01,
                                                                                               DATA 449
                                                         1x6644206E-01,
-1x9865116E-01,
                      .30758905=01.
464
              406
                                        2.5418262E=01:
                                                                             7.3065688E=02.
                                                                                               DATA 450
                    -2.1382454E-02,
              487
465
                                      e1.1308695E=01,
                                                                            =2.7489312E=01,
                                                                                               DATA 451
466
              488
                    -3,3876554E-01,
                                      -3.8744666E-01.
                                                         64,1858409E-01, 64.3061516E-01,
                                                                                               DATA 452
              489
                    -4.2302532E-01, =3.9640457E-01,
                                                         -3-9226418E-01, -2.9271100E-01/
467
                                                                                               DATA 453
668
                 DATA
                      (BCMOON&I), [=145,180,/
20140896=01, =1.3707806E=01;
                                                                                               DATA 454
              491
                    -5
                                                         =4, $209590E=02,
                                                                             4.9391784E=02,
                                                                                               DATA 455
470
              492
                                                          3,2022071E-01,
                     1.4590029E=01,
                                        2.3831965E=01:
                                                                             3.8400849E=01.
                                                                                               DATA 456
              493
                      .2215449E-01.
                                                          4.0476465E-01.
471
                                        4.2938609E=01.
                                                                             3.9203796E=01,
                                                                                               DATA 457
              494
472
                     2,78085456-01,
                                                           9x5798021E-02,
                                        1.90414566=01:
                                                                            =3-4680493E=04.
                                                                                               DATA 458
              495
473
                    =9,3796602E=02, =1.8114034E=01.
                                                         =2 × 5940874E-01;
                                                                            =3.2583274E=01:
                                                                                               DATA 459
              496
                   -3.7778311E-01, =4.1290626E=01,
474
                                                         =4,2941659E-01, =4.2642868E=01, DATA 460
              497
                    =4.0416432E-01, =3.6391639E=Q1,
475
                                                         =3.0778767E-01, =2.3834843E=01,
                                                                                               DATA 461
476
              498
                    -1.5833302E-01,
                                                                            1.1601785E-011
                                      =7.0573555E=02,
                                                          2:1982959E-02,
                                                                                               DATA 462
              499
477
                     2.0749573E=01.
                                       2.9129643E=01.
                                                          3.6105308E-01.
                                                                             4.0956917E=01/
                                                                                               DATA 463
                     A (BCMOON(!), [+181,216]/
4.3033974E-01, 4.1954577E=01,
478
                                                                                               DATA
                                                                                                     464
              501
                                                          3.7796294E-01,
                                                                             3.1070101E=01.
                                                                                               DATA 465
                     2,2533668E=01,
480
              502
                                       1:2968628E=01,
                                                          3.0565100E-02, =6.6697381E=02, DATA 466
                    -1.5801692E=01,
                                                         -3-1045724E-01, -3.6643696E-01, DATA 467
481
              503
                                      €2.4017483E€01.
              504
                                                                                               DATA 468
                   -4.05944625-01,
                                      =4.2722562E=01; =4.2921282E-01; =4.1178142E=01;
482
              505
483
                   -3,75846165-01, -3:2324662E-01, -2x5648419E-01, -1.7843776E-01, DATA 469
                      ,2165882E-02,
484
              506
                                                          9x2146706E-02,
                                                                             1.8304022E=01, DATA 470
                                      -8.4578301E=04:
              507
                                                          3x9466809E-01,
485
                     2.6740835E-01,
                                       3:3996770E=01:
                                                                             4.2539990Ea01
                                                                                               DATA 471
              508
                     4.27434026-01:
                                                          3:4305854E-01,
486
                                        3,0918501E=01,
                                                                             2.6482463E=01,
                                                                                               DATA 472
                 1.7193054E-01, 7.1849112E-02, -2.8912281E-02, -1.2512359E-01/ DATA 473

UATA (BCMOQN(1), 1=217, 252)/ DATA 474

-2.1271784E-01, -2.8850979E-01, -3.4992846E-01, -3.9486728E-01, DATA 475
              549
487
488
489
              511
490
              512
                    -4,2168824E-01, -4:2935283E-01, -4:1759465E-01, -3.8702645E-01, DATA 476
                      .3911502E-01,
491
              513
                    -3
                                      =2.76037926=01, =2x8049560E=01, =1.1555430E=01,
                                                                                               DATA 477
492
              514
                                                          1 # 0 7 0 2 2 0 E - 01 .
4 . 1687180 E - 01 .
                    -2,4562816E-02,
                                       6.8849139EG02,
                                                                             2.4656121 = 011
                                                                                               DATA 478
493
              515
                     3.2146324E=01,
                                                                              4.2765924E=01,
                                                                                               DATA 479
                                        3.8001760E=01.
                      ,1021121E=01,
694
              516
                                                          2x9712601E-01.
                                                                             2.1127581E=01.
                                        3,6541116E=01,
                                                                                               DATA 480
495
              517
                     1,14621756-01,
                                       1.3786119E=02,
                                                         -8.7321455E-02,
                                                                            -1.7772792E-01:
                                                                                               DATA 481
              518
                    -2,5939635E-01,
                                      =3.2712635E001, =3.7845545E-01, =4.1162168E=01,
496
                                                                                               DATA 482
              519
                    -4.2559313E-01,
497
                                      -4.20118505-01, -3.9573429E-01, -3.9369473E-01/
                                                                                               DATA 483
                      [BCMOQN([], [=253,288]/

:9584710E-01, =2.2451104E=01, =4.4241235E-01, =5.2687663E=02,
                 DATA
498
                                                                                               DATA 484
499
              521
                                                                                               DATA 485
                                                                             3.8200420E-01,
4.1318749E-01,
900
              522
                      ,1056954E_02,
                                        1:34670396-01.
                                                          2.2341183E_01,
                                                                                               DATA 485
              253
                     3,64885556-01,
                                        4:067697950014
                                                           4#2353384E-01,
                                                                                               DATA 487
901
                                      3:1651377E=01: 2:3835283E=01: 1.4770756E=01: =4:7848301E=02: =1:4206575E=01: =2:2768517E=01:
              524
$02
                     3,7644015E-01,
                                                                             1.47707565-011
                                                                                               DATA 488
              525
                      .0445009E-02,
903
                                                                                               DATA 489
              526
                      .0084377E-01, =3.58419386=01;
504
                                                         -3x9812914E-01, -4.1862582E-01,
                                                                                               DATA 491
                                      04.0140842E001, 03.4550664E-01, 01.7046444E001, 08.4195433E-02,
905
              527
                      .1953893E-01,
                                                                            =3.13610576=01,
506
              528
                   -2,4781637E-01,
                                                                             7.8880833Ee03,
                                                                                               DATA 492
             529
                 1.0200698E=01. 1.9352023E=01.
DATA (8CMOQN4I), [1:289, 324,/
507
                                                          2 # 3 6 8 8 6 3 6 E - Q1 .
                                                                             3.4592756E=01/
                                                                                               DATA 493
908
                                                                                               DATA 494
```

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909
               531
                      3.9454631E-01,
                                          4,1788584E=01,
                                                               4.13563246-01,
                                                                                   3.8230401E=01, DATA 495
                        .27560416-01.
               532
                                          2.54416365-014
                                                               1468476316-01,
910
                                                                                   7.51816645=02: DATA 496
                                                              =2-00471075-01, =2.7667623E=01,
               533
                        .0434217E-02,
                                         01.1374493E=01,
511
                                                                                                      DATA 497
                                                              -4-1076686E-01, -4.1771688E-01!
                                         -3.8420961E-01:
912
                     -3,3886893E-01,
                                                                                                      DATA 498
               535
913
                     -4.0937235E-01, -3.7499779E-01, -5.2848324E-01, -2.6801776E-01, DATA 499
                     -1.99884516-01, -1.14430136-01, -2.42036986-02, 1.57659646-01, 2.44499526-01, 3:20142786-01,
               536
                                                                                   6.57722945-02, DATA 500
514
515
                                                              3 20142786-01,
3 90611276-01.
                                                                                   3.77706075-011
                                                                                                      DATA 501
                                           4.15244946=01.
                        ,1078845E=01,
916
               538
                                                                                   3.4016823E201, DATA 502
                      2.6959499E=01,
               539
                                           1.85327626=01.
                                                               9x8362790E-02, -1.1282050E=03/
917
                                                                                                      DATA 503
                  DATA (8CMOQN41), 1:325,360)/ DATA 504

-9.37398038-02, 91.80596578-01; =2:58147028-01; -3.23695028-01; DATA 505

-3.72496648-01; -4.04045378-01; -4.16376818-01; -4.99301468-01; DATA 506

-3.83786358-01; -3.41667068-01; -2.85359118-01; -2.17291408-01; DATA 507
518
519
               541
               542
350
               543
921
                     -1.3995828E-01, -5.5781866E-02,
                                                              342674718E-02.
922
               544
                                                                                  1.2240197E-01: DATA 508
                      2.0955191E=01,
4.1452915E-01,
               545
                                                               3,54639726-01,
                                           2.89076386=01.
                                                                                   3.9919554Ea01, DATA 509
353
               546
                                           4.0339481Ec01,
                                                               3.6094809E-01,
                                                                                   2.9437,407E=01.
                                                                                                      DATA 510
524
               547
$25
                      2,10738226-01,
                                           1.1752146E=01.
                                                               2:1008299E=02; =7.47:7014E=02; DATA 511
                     -1.6260152E-03; -2.4227707E-01; -3:0978863E-01; -3.4249496E-01; -3.9816814E-01; -4:1524896E-01; -4:1312855E-01; -3.9231114E-01/
               548
526
                                                                                                      DATA 512
               549
                                                                                                      DATA 513
527
                    ATA (BCMOON(1), 1=061,368,/
-3,5432230E-01, -3.0142353E-01, -2,3624991E-01, -1.6151882E-01,
928
929
                                                                                                      DATA 514
               551
                                                                                                      DATA 515
               552
                     =7.9888783E=02,
                                           6.0182706E=03, 9.8448413E-02, 1.8923171E=01/
                                                                                                      DATA 516
930
                   0.3982675E 01,
931
                                          6.3646485E 01,
                                                                                                      DATA 516
               561
                                                                                   6.8359992E 01,
                                                               6,3564017E 01,
                                                                                                      DATA 517
               562
                      6.3059383E 01.
                                           6.2684186E 01,
                                                               6x22511908 01,
933
                                                                                   6.1771149E 01, DATA 518
934
               563
                      6,1249581E 01,
                                           6.0689085E 01.
                                                               6x0092875E 01,
                                                                                   5.9468978E 01, DATA 519
                       .8834291E 01.
                                                               5.76588226
935
               564
                                           5.8217374E
                                                                                   5.7208358E 01,
                                                        010
                                                                                                      DATA 520
               565
                                           5.6834759E
                                                               5.6986648E 01.
                                                                                   5.7378663E Q1:
                                                                                                      DATA 521
936
                                                        01.
                      5.7987663E 01.
                                           5.8765440E Q1:
937
               566
                                                               5x9646206E 01:
                                                                                   6.0556420E 01, DATA 522
                                           6:2187487E
               567
                       6,1424328E 01,
                                                               6-2797679E 01:
                                                                                   6.3223387E 01, DATA 523
938
                                                       01.
                        .3450293E 01,
               568
                                           6.3480292E 01,
                                                               6.33294125 01.
                                                                                   6.3024898E 01: DATA 524
939
               569
                       6.2601604E 01,
                                                               6x1551461E 01,
                                                                                   6.8995259E 01/
940
                                           6:2097909E 01:
                                                                                                      DATA 525
                   DATA (RMOON 41),1*
6,0454733E 03,
                                          37, 72./
5.9946340E
941
                                                                                                      DATA 526
DATA 527
                                                               5,9478250E Q1,
                                                        01.
                                                                                   5.9052761E 01,
                        ,8670299E 01,
               572
                                           5.8333795E
                                                        014
                                                               5y8052299E 01.
943
                                                                                   5.7842655E D1, DATA 528
               573
                        ,7728498E 01,
                                                               547890017E 01:
                                           5.7736433E 01:
944
                                                                                   5.8203001E 01, DATA 529
945
               574
                        ,84737016 01,
                                           5.9282171E 01.
                                                               54999993E 01,
                                                                                   6.8749360E Q11
                                                                                                      DATA 530
               575
                        ,1499243E 01,
                                           6.2182144E 01,
                                                               6.2745198E 01,
                                                                                   6.3149934E 01,
                                                                                                      DATA 531
947
               576
                      6.3355539E 01,
                                                               6 x 3164315# 01,
                                                                                   6.2784791E 01, DATA 532
6.0227791E 01, DATA 533
                                           6.3360719E 01.
                      6.2254596E 01.
5.9578040E 01.
948
               577
                                          6.1617394E 01.
                                                               6 v 0 9 2 4 0 9 6 E 01 .
               578
549
                                                               5x85670188 01,
                                           5.9015359E 01,
                                                                                   5.8245243E 01, DATA 534
950
               579
                      5.8048392E 01,
                                           5.7964820E 01.
                                                               5.7978333E 01.
                                                                                   5.8073665E 01/
                                                                                                      DATA 535
551
                    ATA (RMOON (1), 1 = 73,108)/
5.82404546 01, 5.8474803E 01,
                                                                                                      DATA 536
               581
352
                                                                                   5.9154149E 01. DATA 537
                                                               5 8778173E 01,
$53
               582
                      5.9604043E 01,
                                          6.0122628E 01,
                                                                                   6.1296264E 01, DATA 538
                                                               6,0095130E Q1.
554
               583
                      6.1891438E 01,
                                           6.2439766E 01,
                                                               6 2898190E 01,
                                                                                   6.8225968E Q1, DATA 539
                        .3388936E 01,
555
               584
                      6
                                           6:3363171E 01.
                                                               6.8137884E 01.
                                                                                   6.2717445E 01. DATA 540
                        ,2122437E 01,
               585
                                           6.1389479E 01.
5.8222421E 01.
                                                               6 0 0 5 6 9 5 1 7 E 01 . 5 7 6 8 3 8 7 0 E 01 .
                                                                                   5.9724237E 01, DATA 541
5.8340121E 01, DATA 542
356
                        .8920413# 01,
957
               586
               587
                      5.72038336 01.
                                                               5.7495636E 01,
                                                                                   5.2857262E 011
958
                                           5.7265016E 01.
                                                                                                      DATA 543
                      5.8309351E 01,
6.0434345E 01,
                                                                                   5.9892651E 01,
6.1991796E 01/
559
               588
                                           5.8815979E Q1.
                                                               5 9349751E 01,
                                                                                                      DATA 544
                      0.0434345E 01, 6.0968874E 01,

(A (BMOON (1), 1 = 109f144),

6.2458312E 01, 6.2870761E 01,
560
               589
                                                               6 x 1 4 9 0 8 0 1 6 01 .
                                                                                                      DATA 545
961
                                                                                                      DATA 546
               591
                                                                                   6.3430707E 01:
962
                                                               6.$204253E 01,
                                                                                                      DATA 547
963
               592
                      6.35218956 01,
                                                               643206515E 01.
                                                                                   6.2775314E Q10
                                           6.34530438 01,
                                                                                                      DATA 548
               593
                        .21661278 01,
564
                                           6.1401631E 01,
                                                               6 8 0521609E 01,
                                                                                   5.9582244E 01, DATA 549
                                          5.78101876 C1,
5.65384172 01,
               594
                      5.8452940E 01,
365
                                                               5-71284246 01.
                                                                                   5.4668982E 011
                                                                                                      DATA 550
                      5,6469684E 01,
366
               595
                                                               5.6853039E 01.
                                                                                   5.7367672E 01. DATA 591
                        .8023064E 01.
967
               596
                                           5.8757603E 01.
                                                               5.9516179E 01.
                                                                                   6.9255478E 01, DATA 552
                        :0945643E 01.
               597
568
                                           6.1569060E 01,
                                                               6+2117340E 01,
                                                                                   6.2587550E 01, DATA 553
               598
                        2978446E 01,
569
                                                               6,8507921E 01,
                                           6.3287245E 01,
                                                                                   6.3628492E Q1, DATA 594
               599
                       6.3635703E 01.
                                                               6.3244673E 01.
970
                                           6.3512868E 01,
                                                                                   6.2820302E 01/ DATA 555
                   DATA (RMOON 61), 1+145 180,/
6,2237217E 01, 6,1504804E 01,
971
972
                                                                                                      DATA 556
DATA 557
               601
                                                                                   5.9706561E 01,
                                                               6 0647438E 01,
$73
               602
                        ,8740450E 01.
                                          5.7821446E 01e
                                                               5.7029210E 01.
                                                                                   5.4440340E 01, DATA 558
                      5.61156025 01.
5.7615539E 01.
6.1107174E 01.
                                          5.6088111E 014
374
               603
                                                               5.63565136 01,
                                                                                   5.6885820E 01, DATA 559
                                                               5.9380712# Q1.
                                                                                   6.0276198E 01, DATA 560
375
               604
                                           5.8471981E Q14
                                                               6+2451339E 01,
6-8667936E 01,
6+3118378E 01,
$76
               605
                                           6:1838833E 01:
                                                                                   6.2937232E 01. DATA 561
577
578
                        32977485
                                           6.3538927E
               606
                                                                                   6.3690208E
6.2700483E
                                                                                                 010
                        . 3607771E 01.
                                                        010
                                                                                                 011
                        .21611476 01.
.899Ç530E 01.
                                                               640735150E 01:
547307791E 01:
979
               608
                                          6:1502208E 01:
5:8108792E 01:
                                                                                   5.9884971E 01, DATA 564
580
               609
                                                                                   5.6661672E 01/ DATA 545
                   DATA (RMOON $1), 1=181, 216)/
581
                                                                                                      DATA 566
```

```
5.6681084E 01, DATA 567
6.8124434E 01, DATA 568
6.8035399E 01, DATA 569
   982
                          5.6239544E 01.
5.7359839E 01.
                                               5,60927935 01:
                                                                   5.42439538 01.
5.91598848 01.
                  611
                  613
   983
                                               5.8212393E 01e
                          6.10382318 01.
6.33879118 C1.
6.33871778 01.
6.33871778 01.
                                                                    642520790E 01,
   984
                                               6.1848786E 014
   985
                  614
                                                                    648638665E Q1:
                                               6.3584527E
                                                                                        6.8567208E 01: DATA 570
                                                             014
                                                                    6427559456
                                                                                  01.
                                                                                                      01: DATA 571
                                                                    6485919862
   987
                   616
                                               6:1235597E
                                                                                        5.9891963E
                                                             010
                                                                                                      D1. DATA
                                                                                  01.
                   617
   988
                          5.9159967E 01,
                                               5.8428831E 01.
                                                                    5477450366
                                                                                 011
                                                                                        5. 7164817E 01. DATA
                                                                                                                 573
                   618
   989
                            .6747 31E 01,
                                               5.65465398 01.
                                                                    5 6597435E 01:
                                                                                        5.4910216E Q1,
                                                                                                           DATA
                                                                                                                  574
                        5.7464453E 01, 5.8214526E 01,
ATA (RMOOR 41),[8217:252]
6.093533 C 01, 6:1762816E 01,
                                                                    5 4 9 0 9 2 5 1 3 E 01.
                                                                                        6.8023917E 01/
   590
                                                                                                                  575
                                                                                                           DATA
   591
592
                                                                                                            DATA 576
                  621
                                                                    6x2456833E 01,
                                                                                        5.2984420E 01,
                                                                                                           DATA 577
                            :3329218E 01.
   993
                  622
                                               6:3489991E 01:
                                                                    6x8478193E 01.
                                                                                        6.8314633E Q1: DATA 578
                           ,3026326€ 01.
                                               6.2642421E 01.
6.0644433E 01.
                                                                                 01:
                                                                                        6.1696137E 01: DATA 579
5.9573456E 01: DATA 580
   994
                  623
                                                                    6 x 2190977E
   595
                  624
                            .1176422E 01,
                                                                    6-81081245
                                                                                 01.
                                                                    5x8083100E 01:
5x7318561E 01:
                                                                                        5.2693715E 01:
5.2550125E 01:
   596
                   625
                           .9047939E 01,
                                               5.8544279E 01:
                                                                                                           DATA 581
                          5,74121616 01.
                   626
   397
                                               5.7276295E 01;
                                                                                                      Q1: DATA 582
                          5,7994619E 01,
6,0990623E 01,
   598
                  627
                                                                    5.9347987E Q1.
6#2424329E Q1.
                                               5.8605518E 01.
                                                                                        6.8164518E 01:
6.2931481E 01:
                                                                                                           DATA 583
   599
                  628
                                               6.1762646E Q1;
                                                                                                           DATA 584
                  629
                          6.3254726E 01,
                                               6.3380580E Q1.
                                                                    6 x 3311176E Q1,
   600
                                                                                        6.3062923E 01/
                                                                                                           DATA 585
                          A (RMOON 61);1:253;288;/
6:2664230E 01, 6:2152375E 01,
                      DATA
   601
                                                                                                            DATA
                  631
                                                                                        6.8958990E 01,
                                                                    6x1569647E 01,
                                                                                                           DATA
                          6.03596Q8E 01.
   603
                  632
                                               5.98031876 01.
                                                                    5 9 9 3 1 1 4 8 6 E 01,
                                                                                        5.8895888E Q1, DATA 588
                          5.8$59117E 01.
5.7961067E 01.
                                                                   5.8111444E 01,
5.8170666E 01,
                  633
                                                                                        5.8997103E 01, DATA 589
   604
                                               5.8298729E Q1.
                           .7961067E 01.
                                                                                        5.0442042E Q1, DATA 590
6.0622755E Q1, DATA 591
   605
                  634
                                               5.8014259E 014
                            .8836597E 01,
                                                                    5,9952833E 01,
                  635
   606
                                               5.9346401E 01.
                          6.1312125E 01,
6.3277339E
                                                                    6x2547279E 01,
                                                                                        6.2995396E
6.2945787E
   607
                  636
                                                                                                      011
                                               6.1970659E
                                                             01,
                                                                                                           DATA 592
                                               6:3367707E 01.
                                                                    6 8 8 2 5 5 6 0 5 E 01 .
   808
                  637
                          6.3277339E
                                                                                                           DATA
                                                                                                                  593
                                                                                                      01,
                  638
                                                                    6.1105568E 01.
   609
                                               6:1829535E 01,
                                                                                                           DATA 594
                                                                                        6.9342567E 01.
                  639
                          5.9599319E Car
                                                                                        5.3986548E Q1/
   910
                                               5.8931214E 01:
                                                                    5x8383631E 01:
                                                                                                           DATA 595
                      DATA (RMOON (I, 1 = 289 324 7 5 7751815E 01, 5 7673930E 01)
                                                                                                            DATA 596
   612
                  641
                                                                    5x7734177E Q1.
                                                                                        5.7906870E 01: DATA 597
                   642
                          5.8165890E 01,
                                               5.84897736 01,
                                                                    5,88642828
                                                                                 01,
   613
                                                                                        5.9282209E 01,
                                                                                                           DATA 598
                          5.9740847E 01,
   614
                   643
                                               6:0238071E
                                                                    6.0768232E 01.
                                                             011
                                                                                        6.1318924E
                                                                                                           DATA 599
                                                                                                      010
   615
                  644
                          6.1869399E 01.
                                               6.2390837E 01.
                                                                    6.2848653E Q1.
                                                                                        6.4205348E 01. DATA 600
                   645
   016
                          6,3425005E 01,
                                                                    6 8 3 3 4 0 4 6 7 E Q1,
                                               6.34771,27E Q1:
                                                                                        6.4006263E Q1, DATA 601
                          6.2480758£ 01,
5.9166734£ 01,
                  646
   617
                                               6:1786806E 01.
                                                                    6,0964215E 01,
                                                                                        6.8068389E 01, DATA 602
                                               5.8332474E 01,
                  647
   618
                                                                    5 7 636049E 01,
                                                                                        5.7135246E 01, DATA 603
                      5.6866262E 01, 5.683838

5.7931016E 01, 5.852971

DATA (RMOON $1, 1=325,360,7

6,0418695E 01, 6.100104
   619
                  648
                                               5.6838388E 01;
                                                                    5.7034179E 01.
                                                                                        5.24151392 01, DATA 604
                  549
                                                                    5x9165277E 01,
                                                                                        5.9802602E 01/
   950
                                               5.8529715E 01,
                                                                                                           DATA 605
   $51
                                                                                                           DATA 606
DATA 607
                  651
   622
                                               6.1001647E 01,
                                                                                        6.2045158E 01,
                                                                    6,1544119E Q1,
                  652
                          6,2500309E 01.
                                                                    6.$235672E Q1,
                                                                                        6.3483176E 01, DATA 608
   023
                                               6:2901660E Q1:
                  653
                          6,36209048 01,
                                               6.3624180E Q1.
   424
                                                                    6484704138 01.
                                                                                        6.4142933E 01, DATA 609
                                                                   6-1122031E 01:
547363704E 01:
546304677E 01:
   625
                          6,2635181E 01,
                                                                                        6.8181196E 011
                   654
                                               6.1953797E 01.
                                                                                                           DATA 610
                   655
                            9190475E 01,
                                                                                        5.66991848 011
   950
                                               5.8223888E
                                                                                                           DATA 611
                                                             014
   427
                  656
                          5,62689258 01,
                                               5.6138828E 01.
                                                                                        5.6737113E 01, DATA 612
   428
                  657
                                               5.8163131E 01.
6.1407394E 01.
                                                                   5x9013926E 01,
6x2039863E 01,
                          5,7380108E 01.
                                                                                        5.9868886E Q1:
6.2568344E Q1:
                                                                                                           DATA 613
   429
                          6,0677523E 01:
                                                                                                           DATA 614
                   659
                                                                    6.3553354E Q1,
                                                                                        6.8692011E 01/
                          6.29938725 01.
   630
                                               6:3320873E 01:
                                                                                                           DATA 615
                      DATA (RMOON (1), 1+361, 368)/
   631
                                                                                                           DATA 616
                  662
                           :3732701E 01:
                                                                   6x3480575E Q11
   632
633
                                                                                        6.8161719E 017
6.8466013E 017
                                               6:36664075 011
                                                                                                           DATA 617
                          6
                                               6:2088429E 01.
                                                                   6#1336888E Q1,
                                                                                                           DATA 618
   634
                                                                                                           DATA 619
       29748 WORBS OF MEMORY USED BY THIS COMPILATION
71034 02 11-03-72
                          11,636
                                         1973 EPHEMERIS
         PREFACE
```

PREFACE

PROGRAM BREAK 4273

COMMON LENGTH 0
V COUNT BITS 5

RRIMARY SYMDEF ENTRY

TABLE

SECONDARY SYMDEF ENTRY

BLOCK LENGTH

## 1 ERHBLK

11

SYMREF

END OF BINARY CAND 01973-19
4273 IS THE NEXT AVAILABLE LOCATION.
GMAP VERSION/ASSEMBLY DATES JMMA 110171/102971 JMPB 110171/20271 JMPC 110171/102971
THERE HERE MO WARNING FLAGS IN THE ABOVE ASSEMBLY
00 19411 WORDS OF MEMORY HERE USED BY GMAP FOR THIS ASSEMBLY.

71084 02	11-03-72	11.650	1974	EPHENERIS					
1	Ce19740		EPHEN	ERIS				DATA	1
2 3	\$	UBROUTINE	TABLE	/2481 macuu /	2401 20.11	4 2 4 0 1		DATA	5
3	ă	MENSION R	ARODE	(369), DCSUN (369), DCMOON(		(369) N(369)		DATA	3
5	D	IMENSION A	RRAY (	2214)	2011 4000	1410051		DATA	•
6	Đ	OUBLE PREC	18108	Ř.					
7 8	<u> </u>	QUIVALENCE	(RAS	UNIARRAY), (DC	SUN BARRAY (	370)), (RS	UN, ARRAY (739))		
9	Ē	QUIVALENCE	ERMD	DDM, ARRAY(1108	ili (naano	M. Addat (14	(/))		
10	Ç	MMON JEPH	BLK/	4(4), 1					
11	Y	(1) B ARRA	4413						
12		(2) # ARRA							
14		(4) s ARRA							
15	R	ETURN							
16		ATA (RASUN						DATA	6 (
17	11	4.886504				0585E QQ,	4.9442984E 00.	DATA	7
19	13	5.040044				8446E 00,	5.8209623E 00: 5.8970646E 00:	DATA	9
20	14	5,115990	5E 00	, 5,1348737E		7133E 00,	5.1725078E 00.	DATA	10
21	15	5,191255		, 5,20995598		6069E 00.	3.2472074E 00.	DATA	11
52 55	16	5,265756 5,339407				69285 00.	3.3210785E 00.	DATA	12
24	18	5,412143				8936E 00.	5.4940485E 00. 5.4660687E 00.	DATA	13
25	19	5,483922	6E 00	5.5017158E		4482E 00.	5.5371200E 00/	DATA	15
26		ATA, LRASUN	1110					DATA	16 6
27 28	21	5.554731 5.624586				7760E QQ:	5.6072100E 00:	DATA	17
29	23	5,693533	2E 00			16958 QQ.	5.2446806E 00:	DATA	18
30	24	5.761626	5E 00			3677€ 00.	5.8121645E 00.	DATA	20
31	25	5,828913				2701E 00.	5.8788799E 00.	DATA	21
32	26 27	5,895445	3E 00			9639E 00.	5.9448857E 001	DATA	22
34	28	6,026501	8E 00			90356 00.	6.8750579E 00;	DATA	23 24
35	29	6.091184	0E 00	. 6.1072834E	001 64123	35838 00,	6.1394103E 00/	DATA	25
36 37	31	ATA (RASUN	11)			44300 00	4 00-40455 00	DATA	26 6
38	32	6,155441	0€ 00 3€ 00		00. 5-254	2643E 00,	6.2034213E 00. 6.2671881E 00:	DATA	28
39	33	6,283102	0E 00			07316-02	4.7613487Ee02	DATA	29
40	34	6.350177	56-05	7.93868735	021 9x327	00786-02,	1.11152596-01,	DATA	30
41	35 36	1.270356			01: 14988	0775E-01.	1.74699295=01.	DATA	31
42	37	2.542688	8E-01	2.0650022Ec	01. 2-861	1241E-01, 7973E-01,	2.8813474E=01. 3.0215972E=01.	DATA	33
44	38	3.181580		. 3.3417635Es	01, 3,502	15925-01,	3.6627@GGE=01.	DATA	34
45	39	3.823638	16-01	. 3.9847452E=	01: 4x246	11336-01,	4.3077923E=01/	DATA	35
46	41	4,469673	25-01	1 * 109, 144,/ , 4,6318854E*	01. 4 904	3997E-01,	4 85-22725 04	DATA	36 (
48	42	5,120365	0E-01	5 2838312E		6289E-01.	4.9572237E=01, 5.4117629E=01,	DATA	37 38
49	43	5,776238	0E-01	. 5.9410571Ec	01, 6,106	2231E-01,	6.27174215=01,	DATA	39
50	44	6.437619				47356-01,	6.9374648E=01:	DATA	40
51 52	46	7,104843			01. R. 149	7947E-01.	7.6093798E=01: 8.2878973E=01:	DATA	41
53	47	8.458584	35-01	8.6297027E		24678-01,	8.97321786=01,	DATA	42
54	48	9.145614	95-01	. 9.3184362E=	01: 9,491	67984-01,	9.6653406E=01.	DATA	44
- 55	49 D	9.839413 ATA (BASUN	48-01	1:145,180;/	00, 1,015	87695 00.	1.8364633E 00/	DATA	45
56 57	51	1.053967	3E 00	1:0715378E	00, 1.089	2034E 00.	1.1068731E 00,	DATA	46
58	52	1,124575	9E 00	. 1:1423108E		07688 00.	1.1778733E 00.	DATA	48
59	53	1.195699	46 00	. 1.2139542E	00, 14831	4370E 00.	1.2493465E 00,	DATA	49
60 61	54 55	1,267281				22545 00.	1.3212312E 00.	DATA	50
91			18 00	. 1.3573047E	00: 1:375	3696E 00.	1.8934516E 00,	DATA	51

62 56 1,4115490	6 00. 1.4296605E 00.	1 44778468 00,	1.4659196E 00: DA	A 52
63 57 1,4840636		1 x 9 2 0 3 7 1 8 2 00 .	1.5385318E QO, DA	7A 53
64 58 1,5966926		1,59300796 00.	1.6111980E QO. DA	
65 59 1.6293005		1406555568 00,	1.6836649E 00/ DA	
66 DATA (RASUM 67 61 1.7017600	# 1) # 13181,216;/ E 00, 1.7198397E 00,	1×8379023E 00,	1.7559465E 00. DA1	
68 62 1,7739708		1,80995475 00.	1.8279118E 00: DA	
69 63 1.8458439	6 00. 1.8637499E 00.	1.88162878 00.	1.8994792E QQ, DA1	
70 64 1,9173003		1,95285086 00,	1.9705780E 00. DAT	
71 65 1,9882720	E 00. 2.0059315E 00.	2402355578 00,	2.8411431E 00: DAT	
72 66 2.0586923		2.09367125 00.	2.1110987E 00. DA1	
73 67 2.1284838		2-1631239E 00.	2.9803778E 00. DA	
74 69 2,1975874 75 69 2,2659779		248318725E 00.	2.2489477E 00: DAT 2.3167997E 00/ DAT	
76 DATA IRASUN	11) 1 1 2 2 7 1 2 5 2 1 /	2843330014 001	DY,	
77 71 2.3336515	£ 00, 2.3504595E 00,	2 3672241E 00,	2.3839457E 00, DA	
78 72 2,4006251	E 00, 2.4172626E 00,	2 4 6 3 3 8 5 9 2 E 00,	2.4504152E 00, DA	
79 73 2,4469313		2,49984615 00,	2.5162455\$ 00, DA	
80 74 2,5326066		2496521538 00,	2.5814639E 00, DA	
81 75 2,5976759	E 00. 2.6138520E 00.	2,62999285 00,	2.6460993E QQ, DA	
82 76 2,6621724 83 77 2,7261500		2 4 9 4 2 2 2 2 E 0 0 1 2 7 5 7 9 6 5 3 E 0 0 1	2.7102008E QO: DA1 2.7738338E QO: DA1	
84 78 2,7896783	£ 00. 2.8055000E 00.	2 8 2 1 3 0 0 4 E 0 0 a	2.8370811E 00. DA	
85 79 2.8528436	E 00, 2,8685896E 00,	2,0843205E 00;	2.9000380E 00/ DA	TA 75
86 DAYA (RASUN	11,11+253,2881/		DA	
87 81 2.9157433		2,9471243E 00,	2.9628021E 00, DA	
88 82 2,9784729 89 83 3,0411119	E 00, 2.9941381E 00, E 00, 3.0567664E 00,	3,0797959E 00,	3.8254564E 00. DAT 3.8880775E 00. DAT	
90 84 3.1037368		3,13506915 00,	3.9880775E 00. DAT 3.1507449E 00. DAT	
91 85 3.1664290	£ 00. 3.1821229E 00.	3-1978282E 00,	3.2135465E 00, DA	
92 86 3.2292796	E 00, 3,2450290E 00,	3-2607965E 00.	3.2769840E 00: DA	market a second of the second
93 87 3.2923931		3 \$240837E 00,	3.3399686E 00. DA	7A 83
94 88 3,3558820		3,8878008E 00,	3.4038089E 00. DA	
95 89 3.4198512		3,4520439E 00.	3.4681967E 00/ DA	
96 DATA (RASUN 97 91 3.4543886	41),1=289,324,/ E 00, 3,5006208E 00,	3,9168941E 00,	3.5332097E 00, DA1	
98 92 3.5495684		3438241908 00,	3.5332097E 00, DA	
99 93 3.6154535		3.04868026 00,	3.6653683E 00, DA1	
100 94 3.6821078	\$ 00, 3.6988998E 00,	3.7157454E 00,	3.7326458E 00. DA	
101 95 3.7496021	E 00. 3.7666155E 00.	3,7836868E 00.	3.5008172E 00. DA1	A 91
102 96 3.8180073		349525701E 00.	3.8699438E 00. DA	
103 97 3,8873796 104 98 3,9577500	E 00, 3,9048778E 00,	3492243905 00,	3.9400631E 00, DA	
104 98 3.9577500 105 99 4.0291206		3,9933119E 00, 4,0651726E 00,	4.8111853E 00, DAT 4.8832881E 00/ DAT	
106 DATA (RASUN	61) 11 8325 360 7	Ağdasfiresê Ağı	4.9832881E 00/ DA	
107 101 4,1014622	€ 00, 4,1196946E 00,	4,13798428 00,	4.1563305E 00, DA1	7A 97
108 102 4.1747326		4,21170156 00.	4.2302465E 00, DA	
109 103 4.2488842	E 00, 4,2675537E 00,	4 2862737E 00,	4.3050433E 00. DA	
110 104 4,3238614	E 00, 4.3427264E 00,	4 8616373E 00.	4.3805923E 00. DA	
111 105 4.3995899 112 106 4.4759712		4,4377052E 00, 4,5143670E 00,	4.4568211E QQ. DAT 4.5336079E QQ. DAT	A 101
112 106 4,4759712 113 107 4,5528738	E 00, 4,4951539E 00, E 00, 4,5721623E 00,	4,5143670# 00; 4,5914704# 00;	4.5336079E 00. DAT	
214 108 4.6301351		4486884718 00.	4.6882144E 00. DA	
115 109 4.7075858	E 00, 4,7269589E 00,	4.94633136 00.	4.7657006E 00/ DA	A 105
116 DATA (RASUN	41),1:361,368,/		DA	A 106 6
111 4,7850646	E 00, 4.804421JE 00,	4,82376735 00,	4.8431015E 00, DA	
118 112 4.8624215 119 DATA (BCSUN	E 00, 4.8817250E 00,	4,90101036 00,		FA 108
119 DATA (BCSUN 121 -4:0361568	E-01, -4.0232236E-01,	-4.0089529E-01,	=3.9933519E=01, DA	TA 108 6
121 122 -3.9764287	E-01, -3.9581921E-01,			TA 110
122 123 -3.8956977	E-01, =3:8723033E=01:	=3.8476444E=Q1.	-3.5217314E-01. DA	FA 111
123 124 =3.7945759	E-01, 93.7641894E-01,	=3 x 7365839 E-Q1,	=3.70577394=01, DA	7A 112
124 125 -3.6737736	E-01, -3:6405981E-01;	=3-0062637E-01.		7A 113
125 126 -3.5341832 126 127 -3.3768598	E-01, -3.4964713E-01; E-01, -3.3346912E-01;	=3,6576662E=01, =3,2919047E=01,		TA 114
	E-01, -3,1570282E-01,			TA 115 TA 116
128 129 -3.0136823				7A 117
129 DATA (BCSUN	61)114 37, 721/			7A 118 6
131 -2,8103010	E-01, -2,7573974E=01,		-2.6492\$11E-01, DA	TA 119
131 132 -2,5940457	E-01, -2.5381097E=01,		-2.4241803E-01, DA	
132 133 -2.3661070		=2-2481455E-01,		7A 121
133 134 -2.1277416 134 135 -1.8802724	E-01, -2.0666755E-01; E-01, -1.8171392E-01;	-2+8050010t-01,	=1.4894983E=01, DA	TA 122
135 136 -1.6250320	6-01, -1.550162 E-01,	81 . 6949095E		TA 124

```
137
                    -1.3633344E-01, -1.2970518E-01, -1.2304663E-01, -1.1635961E-01, -1.0964598E-01, -1.0290754E-01, -9.46146110E-02, -6.9363354E-02,
136
                                                                                                  DATA 125
              138
137
                                                                                                  DATA 126
                                        -7.57405876-02, -6x89038506-02, -6.2052559E-02/ DATA 127
138
              139
                       .29609586-02,
                                        73:108;/

-4.8313417E-02; -4,1429139E-02; -3.4537521E-02;
139
                                                                                                  DATA 128
DATA 129
                                                           -1+8837130E=02.
1+8753931E=02.
              142
141
                       .76404135-02.
                                                                                                  DATA 130
                    2,7512274E=02,
5,4881897E=02,
              143
                                         6:86269978-031
                                                                                2.8637729E=024
                                                                                                  DATA 131
142
143
                                          4.4375756E=02.
                                                             4.12263686-02,
                                                                                                  DATA 132
                                                                                 4.8062330E=02,
              145
144
                                                             6,84644298-02,
                                         6.1683169E=02;
                                                                                7.5223996E=02,
                                                                                                  DATA 133
                       .1960191E-02,
145
                                         8.86713746-02,
               146
                                                                                1.02012285=01,
                                                                                                  DATA
                                                                                                        134
              147
146
                                         1:1523454E=01;
                                                             1-21797456-01.
                                                                                1.2832613E=01,
                                                                                                   DATA 135
                  1,34819018-01;
1.464028-01;
UATA (BCSUN (I);
1.85277158-01;
              148
                                         1.41274508001,
                                                             1x4769099E-01,
                                                                                1.54066805-01:
                                                                                                   DATA 136
                                         1.6668973E=01,
09.144,/
1.9137366E=01,
              149
148
                                                             1.7293348E-01,
                                                                                                  DATA 137
                                                                                1.79129856-01/
149
                                                                                                   DATA 138
              151
                                                             1,97417785-01,
                                                                                2.8340778E=01.
                                                                                                  DATA 139
              153
                       0934199E-01,
151
                                         2.1521875E=01,
                                                             2.2103642E-01,
                                                                                2.2679337E=01, DATA 140
152
                      2
                       .3248790E-01,
                                         2.3811837E=01,
                                                                                2.4918059E=011
                                                                                                  DATA 141
                                                             2-43683128-01,
              154
                                                                                2.7046459E=01,
153
                      2.54609198-01.
                                         2.59967385001,
                                                             2 46525367E-01,
                                                                                                  DATA 142
              155
                      2.7960481E-01:
2.9838242E-01:
                                          2.8066691E-01.
154
                                                             2-95651485-01,
                                                                                2.70557135=01.
                                                                                                   DATA 143
155
                                          3.00125975001.
                                                             3 0 4 7 8 6 3 2 E - Q1,
                                                                                 3.8936205E=01,
                                                                                                  DATA 144
              157
                       ,1385166E=01,
                                         3:1825373E=01,
                                                                                3.2678958E=011
                                                                                                  DATA 145
156
                                                             342256685E-01,
               158
                       ,3092050E-01,
                                          .3495823E=01.
                                                                                3.4274882E=011
157
                                                             3-3890146E-01,
                                                                                                  DATA 146
              159
158
                      3.46499016-01,
                                          3.9015078E-01.
                                                             3493702885-01,
                                                                                3.9715413Ec01/
                                                                                                  DATA 147
                      A (BCSUM 11):1
3,60503326-01,
159
                  DATA
                                         49,180,/
3,6374918E-01,
                                                                                                   DATA 148
              161
                                                             3 # 8 6 8 9 0 6 4 E - 01 ,
                                                                                3.6992649E=01,
                                                                                                  DATA 149
                                                                                3.8099355E-01:
161
              162
                       ,7285572E-Q1,
                                         3,75677275001,
                                                             3478390166-01,
                                                                                                  DATA 150
              163
                                                             3+88137978-011
162
                      3,83486486=01,
                                          3.8586823E=01,
                                                                                3.9029495E=01,
                                                                                                  DATA 151
              164
                      3.9233839E=01,
                                                             3-9608181E-01.
163
                                          3.9426757EG01;
                                                                                 3.9778040E=01, DAYA 152
              165
                                                             4x0217595E-01,
164
                      3,99362686-01,
                                         4.00828065-014
                                                                                 4.0340883E=01: DATA 153
165
                      4,04517206-01,
              166
                                          4.05509635-014
                                                             4-2638277E-011
                                                                                4.8713626E=01, DATA 154
              167
                       .0776990E-01.
                                                                                4.8895025E=01:
166
                                          4.08283526-01,
                                                             4-0867699E-01.
                                                                                                  DATA 155
              108
                       ,09103275-01,
                                                             4.0904875E-01.
                                                                                4.8884128E=01,
                                                                                                  DATA 156
167
                                          4.0913611E=01,
                       .0851386E-01.
(8CSUN (1),1:1
              169
168
                                          4.0806663E=01.
                                                             4 0749988E-01,
                                                                                4.9681386E=01/
                                                                                                  DATA 157
                  DATA
169
                                         81:216)/
                                                                                                   DATA 158
              171
172
                                                                                4.0288492E=01: DATA 159
3.9768229E=01: DATA 160
                                         4:0508551E=01:
4:0021580E=01:
                                                                                                        159
170
                      4.0600894E=01,
                                                             4 2 4 0 4 4 0 1 E - 0 1 2
3 2 9 6 7 0 6 8 4 E - 0 1 2
                       .01608485-01,
                       .9534283E-01.
172
              173
                                         3,9348907E-01;
                                                             3491521656-01,
                                                                                3.8944135E=01,
                                                                                                  DATA 161
                       .87248$3E-01,
              174
173
                                         3.8494496EG01,
                                                             3-82530574-01,
                                                                                3.80006604=01,
                                                                                                  DATA 162
              175
174
                       .77373996-01.
                                                                                3.6883526E=01,
                                         3,7463385EG01:
                                                             3=71787226-01,
                                                                                                  DATA
                                                                                                        163
175
              176
                       .65779196-01.
                                                             3,5935967E-01,
                                         3,6262028E=01,
                                                                                3.95098615-014
                                                                                                  DATA 164
              177
176
                                                                                3.4157483E=01, DATA 165
                      3.52538316-01,
                                         3,4898004E=01,
                                                             3 4 4 5 3 2 5 1 4 E - 01 .
              178
177
                       .3773044E-01,
                                         3,3379329E=01,
                                                                                3.2564594E-01, DATA 166
                                                             3-2976465E-01,
                                        3,1714337E@01,
217,252)/
178
              179
                      3.2143839E-01,
                                                             3+1276215E-01,
                                                                                3.08296045=01/ DATA 167
                  DATA (BCSUN 11).1*
3,0374634E-01,
179
                                                                                                   DATA 168
                                                                                                                6
              181
                                         2,9911445E=01,
180
                                                             2,9440166E-01,
                                                                                2.8960932E=01,
                                                                                                  DATA
                                                                                                        169
181
              182
                       .8473879E=01.
                                         2,79791475601,
                                                             2.7476872E-01.
                                                                                2.6967204E=01. PATA 170
                      2.6450291E-01.
                                                                                2.48576225=01.
182
              183
                                         2,59262876=01.
                                                             2 $ 5395340 5-01,
                                                                                                  DATA 171
              184
                       .4313301E=01,
183
                                         2,37625346-01,
                                                             2432054908-01,
                                                                                2.2642329E=01,
                                                                                                  DATA 172
              185
                                         2.1498300E=01,
1.9143941E=01,
                                                             2 4 0 9 1 7 7 6 2 5 - 01 .
184
                       ,2073211E-01,
                                                                                2.9331753E=01.
                                                                                                  DATA 173
              186
                       ,9740428E-01,
185
                                                             1.8542455E-01,
                                                                                1.7936121E=011
                                                                                                  DATA 174
186
              187
                       ,7325086E-01,
                                                             1.40895246-01,
                                         1:67095056-01:
                                                                                1.5465287E=01.
                                                                                                  DATA 175
187
              188
                      .4836944E=01.
                                                             1.3568514E-01,
                                         1.4204637E=01.
                                                                                1.2928718E=01,
                                                                                                  DATA
                                                                                                        176
                                                                                1.0335734Ea01/
188
              189
                      1.22853956-01,
                                         1:1638691E=01.
                                                             1=0988753E-01,
                                                                                                  DATA
                                                                                                        177
                  PATA 18CSUN 41), I : 9,67979036-02,
189
                                        253,288)/
                                                                                                   DATA 178
190
                                         9,02108086-02,
                                                             8 2 3 5 9 7 6 1 3 6 - 0 2 ,
                                                                                7.6950091E=02.
                                                                                                  DATA 179
              192
                       .0299948E=02,
191
                                         6:3618901E-02,
                                                             5.6918609E-02,
                                                                                5.02008286=02:
                                                                                                  DATA 180
              193
192
                       .3467264E-02.
                                                             2+9959720E-02, 2.8189132E-02,
2+8301961E-03, =3.9662424E-03,
                                                                                                  DATA 181
                                         3.6719630E=02.
                                         9.62266908-03.
193
                      1.64095526-02.
                                                                                                  DATA 182
              195
194
                                                           -2-4363049E-02, -3.1159120E-02,
                    -1.0765009E-02.
                                        -1:7564480E-02a
                                                                                                  DATA 183
              196
                                        -4:4737391E=02.
-7:1793877E=02.
                                                           -5-15163968-02: -5.8286543E-02: -7-8527834E-02: -8.5246434E-02:
195
                    -3.7951099E-02.
                                                                                                  DATA 184
196
                    -6,3046237E-02,
                                                                                                  DATA 185
              198
197
                       19479686-02,
                                        99:8630686E-02: -1-8529285E-01: -1.1193255E-01:
                                                                                                  DATA 186
              199
198
                                        -1:2513700E-01; -1-8169804E-01; -1.8822905E-01/
                    -1.1854789E-01;
                                                                                                  DATA 187
199
                       (BCSUN 61) 1 = 289.324)/
;4472813E-01, =1.5119336E-01, =1.5762276E-01, =1.6401447E-01.
              201
                    -1
                                                                                                  DATA 189
201
              205
                    -1.7036656E-01, -1.7667708E-01, -1.8294406E-01, -1.8916561E-01,
                                                                                                  DATA 190
              203
                    -1,9533980E-01, -2,0146479E-01, -2,0753854E-01, -2,1359932E-01,
                                                                                                  DATA 191
202
203
              204
                    = 2
                       ,1952519E-01, -2,2543425E-01,
                                                           =2+3128467E-01, =2.8707461E=01,
                                                                                                  DATA 192
              205
                                                                                                  DLTA 193
204
                       .42802176-01, -2.48465576-01, -2.5959221E-01, -2.5959221E-01,
                    -2,6505161E-01, -2,7043920E-01, -2,7575293E-01, -2.8099079E-01, -2,3612074E-01, -2,9123075E-01, -2,9622884E-01, -3.0114303E-01,
                                                                                                  DATA 194
DATA 195
205
              206
206
              207
207
              208
                    -3,01971296-01:
                                        "3:1071168E=01; =3,1536226E-01; =3.1997106E=01;
                                                                                                  DATA 196
                       .2436618E-01, -3.2875572E-01, -3.2302768E-01, -3.2720029E-01/
                                                                                                        197
208
                                                                                                  DATA
209
                                                                                                  DATA
                                                                                                        198
                                                                                                                6
```

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210
811
212
213
                       -3.41271666-01, -3.45240016-01, -3.4910334E-01, -3.5286053E-01, DATA 199
-3.5650933E-01, -3.6004821E-01, -3.65347561E-01, -3.66789936-01, DATA 200
                 211
                                                                     -3,7603968E-01, -3.788$696E-01:
                 213
                           .6798973E-01,
                                              -3,7307346E-01;
                                                                                                                   DATA 201
                                              13:84219098-01: 03:86701178-01: 03:89058808-01: 03:93395958-01: 03:953788-01: 04:0523788-01: 04:01978238-01: 04:03299998-01:
                 214
                           .8161389E-01,
                                                                                                                   DATA
                                                                                                                         202
                           9129065E=01,
9893740E=01,
214
215
216
217
216
                 215
                                                                                                                   DATA
                                                                                                                         203
                                                                                                                   DATA
                 217
                           04488316-01,
0789489E-01,
                                              -4.0554255E-01; -4.0646205E-01, -4.8724632E-01,
                                                                                                                  DATA
                                                                                                                         205
                                                                     -4.0878342E-01, -4.0902283E-01,
                        -4.0789489E-01, -4.0840736E-01, -4.0878342E-01, -4.0902283E-01, -4.0912544E-01, -4.0909112E-01, -4.0891989E-01, -4.0861184E-01/
                 218
                                                                                                                   DATA
                                                                                                                          206
                                                                                                                          207
                        TA (805UN 41); 1+361/368)/
-4.08167082-01; -4.0758581E-01; -4.069683 E-01; -4.0601495E-01;
-4.0802602E-01; -4.0390192E-01; -4.0264302E-01; -4.812499E-01/
219
                                                                                                                   DATA
                                                                                                                         208
                 221
                                                                                                                   DATA 209
                                              =4.0390192E=01, =4.0264303E=01, =4.0124999E=01/

1. 36/

9.8394520E=01, 9.8392922E=01, 9.8391847E=01,
221
                           .09026025-01,
                                                                                                                   DATA
                                                                                                                         210
$23
$23
                         A (BSUN 41), 1:
9,8396596E-01,
                        TA
                                                                                                                   DATA 210
                 231
                                                                                             9.8391847E=01:
                                                                                                                   DATA 211
                 232
                                                9.8391386Ec01.
                                                                       9 8 3 9 2 0 6 4 5 - 01 .
                                                                                              9.83938725=01.
224
                           .83913256-01,
                                                                                                                   DATA
                         9.8395330E=01.
9.8409621E=01.
9.8433921E=01.
                 233
234
825
                                                9.8397950Ec01.
                                                                       9 8 4012638-01,
                                                                                              9.8405228E=01.
                                                                                                                   DATA 213
226
227
                                                9.8415017E=01.
                                                                       9 8 4 20 7 8 5 E - 01 .
                                                                                              9.8427096E=01.
                                                                                                                   DATA 214
                                                 .8441228E-01,
                 235
                                                                                              9.8457154E=01.
                                                                       9484489798-01.
                                                                                                                  DATA 215
228
                 236
                         9.8465741E-01,
9.8503857E-01,
                                                9.8474718E=01.
                                                                                              9.84937846-01,
                                                                       9+8484068E-01,
                                                                                                                  DATA 216
                                                                                             9.8536200E=01:
9.8584547E=01:
                 237
                                                9.8514286E=01,
9.8559590E=01,
$59
                                                                       9485250646-01,
                                                                                                                   DATA
                                                                                                                         217
                 238
                           .8547705E-01.
520
                         9
                                                                       9 8 8 7 1 8 5 9 6 - 01 .
                                                                                                                   DATA 218
                                                9.86112828=01.
37.721/
9.8670865E=01.
                 239
231
                           .8597679E-01,
                                                                       9,86253768-01,
                                                                                              9.8639991E=01/
                                                                                                                  DATA 219
                           (ASUN 11):1:
:86551476-01,
$33
                        TA
                                                                                                                         220
                                                                                                                   DATA
                 241
                                                                       9,56871835-01,
                                                                                             9.8704066501,
                         9.8721502E-01,
                                                                                                                   DATA
234
                 242
                                                9
                                                 : 8739470EG01:
                                                                       9 8 7 5 7 9 5 5 6 - 01 ,
                                                                                             9.8 76920E=01: DATA 222
235
                                                9.8816151Ec01.
9.8898859Ec01.
                                                                       9.88363396-01,
                 243
                                                                                              9.8856871E-01, DATA 223
                           .8796330E=01,
                         9.8877721E-01.
9.8963775E-01.
236
                 244
                                                                      9 4 9 9 2 0 2 9 0 8 = 01 .
9 4 9 0 0 8 1 2 3 8 - 01 .
                                                                                              9.8941904E=01,
                                                                                                                  DATA 224
                 245
237
                                                9.89858526-01.
                                                                                              9.9030384E=01.
                                                                                                                  DATA 225
                 246
                           .9053236E-01,
238
                                                                       9890991038-01,
                                                9.90760775=01.
                                                                                              9.9122340E=01,
                                                                                                                  DATA 226
                          .9145809E-01.
239
                 247
                         9
                                                9,91695288-01,
                                                                       9.9193514E-01.
                                                                                             9.9217798E=01, DATA 227
9.9319381E=01, DATA 228
                           .9242403E-01,
240
                 248
                         9
                                                9.92673556601
                                                                      9,9292687E-01,
241
                 249
                           .9344438E-01,
                                                9.93708456-01,
                                                                       9-9397602E-01,
                                                                                             9.9424672Ea01/ DATA 229
                           (RSUN (1), 1:
,9452023E-01,
                     DATA
                                                73,108,/
9.9479623EeQ1,
                                                                                                                   DATA 230
243
                 251
                         9
                                                                       9,95074308-01,
                                                                                             9.9535418E=01,
                                                                                                                  DATA 231
244
                 252
                           .9963555E-01,
                                                9.9591807E=01,
9.9705375E=01,
                                                                      9-9620143E-01;
9-9733774E-01;
                                                                                             9.9648$33E=01.
                                                                                                                  DATA 232
                 253
                           .9676952E=01,
                                                                                              9.9762139E=01, DATA 233
                 254
                         Ò
                           ,9790458E-01.
                                                                                             9.9375051E=01; DATA 234
9.9987391E=01; DATA 235
246
                                                9.9818721E-01.
                                                                       9-9846910E-01,
                           .9903154E-01,
247
248
                 255
256
                                                9.9931234E=01,
1:0004373E 00,
                         9
                                                                       9,99993026-01,
                                                                       1x0007204E 00,
                                                                                              1.9010046E 00, DATA 236
                    1.00359936 00, 1:0027309E 00;
DATA (RSUN (I), I = 109, 144)/
1.0047447E 00, 1:003036476
1,0056576E 00
                 257
249
                                                                       1 0018637E 00,
                                                                                              1.8021522E 00, DATA 237
250
251
                 258
259
                                                                      1 0 0 3 0 2 0 5 E 00 .
1 0 0 4 1 7 4 9 E 00 .
                                                                                             1.8033102E 00:
1.8044606E 00/
                                                                                                                  DATA 238
                                                                                                                  DATA 239
252
                                                                                                                   DATA 240
253
                 261
                                                                       1.00530638
                                                                                      00,
                                                                                              1.9053833E 00,
                                                                                                                   DATA 241
254
                 262
                                                                       1,0063969E 00,
                                                                                              1.00666195 00,
                                                                                                                   DATA 242
355
                                                                       1,00743926
                          1.00692398
                                        00,
                                                               000
                 263
                                                1:00718298
                                                                                      00.
                                                                                              1.8074929E 00. DATA 243
                                                1.0081939E 00.
256
                 264
                         1.0079444E 00,
1.0089332E 00,
                                                                       1 0 0 8 4 4 1 8 E
1 0 0 9 4 1 9 9 E
                                                                                      00,
                                                                                              1.0086F82E
                                                                                                            00. DATA 244
257
                 265
                                                                                      00.
                                                                                                             00,
                                                                                                                  DATA
                                                                                                                         245
258
                         1.00990:9E 00,
                                                                       1,0103762E
                 266
                                                                                     00.
                                                1.0101394E 00.
                                                                                              1.0106111E
                                                                                                             00.
                                                                                                                  DATA 246
                                                                      1.01130166
                                                1.0110741E 00,
1.0119647E 00,
                                                               00
259
                 267
                                                                                              1.0115261E
1.01238755
                           .0108438E 00.
                                                                                                                         247
                                                                                      00.
                                                                                                                   DATA
                                                                                                             000
                         1,01174728 00,
$60
                 268
                                                                                      00,
                                                                                                             00,
                                                                                                                   DATA 248
                 269
                                                1:0127922E 00.
                                                                                              1.0131767E
261
                          1.01259228 00,
                                                                       1,01298705 00,
                                                                                                                  DATA 249
                                                                                                             00/
                     DATA (RSUN 61) 1.
1.0133615E 00,
                                                1,0135412E
262
                                                                                                                  DATA 250
DATA 251
                 271
                                                               00 ;
                                                                       1-0137159E 00,
                                                                                              1.6138859E 00,
                 272
                          1.01405156 00,
                                                1:01421318
264
                                                               00 .
                                                                       1x0143710E CO.
                                                                                             1.0145253E 00,
                                                                                                                   DATA 252
                                                                       1x01496918
1+0155197E
265
                 273
                           .114676 E 00,
                                                1.0148241E 00.
1.0153865E CO.
                                                                                             1.8151111E
1.0156498E
                                                                                      00,
                                                                                                                         253
                                                                                                            000
                                                                                                                   DATA
                           0152503E 00,
                 274
                                                                                      00.
                                                                                                             00.
                                                                                                                   DATA 254
                 275
                                                                      1 0160196E 00.
                                                                                             1.0161353E 00.
1.0165$34E 00.
                                        00.
                                                1:01589998
267
                         1,01577666
                                                               00;
                                                                                                                   DATA 255
                         1,0162468E
1.0166453E
                                         00.
                                                1:0163538E
1:0167314E
                                                               004
268
                                                                                                                  DATA 256
                                                                      1 0 1 6 8 1 1 6 E
1 2 0 1 7 0 7 1 1 E
1 2 0 1 7 2 3 7 1 E
269
                 277
                                                               000
                                        00.
                                                                                      00.
                                                                                              1.9169057E
                                                                                                            000
                                                                                                                  DATA 257
                 278
270
                         1,01695386
                                         00.
                                                                                             1 · C1712075 00:
                                                1:01701566
                                                               000
                                                                                      004
                                                                                                                  DATA 258
271
                 279
                           .0171647E
                                        00,
                                                 .0172034E
                                                               00,
                                                                                      00.
                                                                                             1.0172660E
                                                                                                             00/
                                                                                                                   DATA
                                                                                                                         259
                     DATA
                           (45UN 61),1
,01729068 00,
                                                1,01731096
272
273
                                                                                                                   DATA 260
                 281
                         1
                                                               00,
                                                                       1.01732746 00,
                                                                                             1.8173402E 00.
                                                                                                                   DATA 261
                         1.0173493E
1.0173502E
                                                                      1.01735686
274
                 585
                                         00.
                                                                                             1.8173553E 00, DATA 262
1.8173123E 00, DATA 263
                                                1:01735488 00,
                                                                                     200
                 283
                                                                       1401732886
                                         20,
                                                                                      00.
                                                1.01734148 00,
                           .0172916F
                 284
276
                                        00.
                                                1:0172666E QO.
                                                                       1x0172370E
                                                                                      00.
                                                                                                                  DATA 264
                                                                                             1.0172026E QO.
                         1.0171631E 00,
1.0169478E 00,
277
                                                1:0171181E
1:0168789E
                                                                       1-01706736
                                                                                      00:
                                                               00
                                                                                              1.0170106E
                                                                                                            000
                                                                                                                   DATA
                                                                                                                         265
                                                                                              1-9167219E
                                                               00 4
                                                                       1,01680348
                                                                                      900
                                                                                                             000
                                                                                                                   DATA 266
279
                 287
                         1.01663468 00,
                                                                      1 0 1 6 4 4 3 6 E
1 0 1 6 0 0 5 1 E
1 0 1 5 5 0 6 9 E
                                                                                             1.01634056
                                                                                     00.
                                                1:0165417E 00:
                                                                                                                   DATA 267
                                                                                                            000
                         1.01623286
1.01576276
                                         00,
230
                 288
                                                1:0161209E 00.
                                                                                      000
                                                                                              1.81588578 00:
                                                                                                                   DATA 268
                                         00,
281
                                                1:0156364E
                                                               000
                                                                                     00.
                                                                                             1.8153744E 00/
                                                                                                                  DATA 269
                                     111118217,2521/
                           (RCUN
282
                                                                                                                   DATA
                                                                                                                         270
```

248	291 1.01523666 00, 1.01510038 00; 1-	04405065 00 4 44404405 44 0 5 6
283		0149588E 00, 1.01481425 00, DATA 271 01436115 00, 1.0142030E 00, DATA 272
285	The second secon	01436115 QC. 1.0142030E QQ. DATA 272 01370495 QQ. 1.01352915 QQ. DATA 273
286		01297318 CO. 1.8127773E DO. DATA 274
287		01216128 00: 1.01198708 00: DATA 275
288	296 1.0117291E 00, 1:0117076E 00, 1m	91128326 00: 1.01109616 00: DATA 276
289	297 1,01082648 00, 1,01059448 00, 1%	0103605E 00. 1.0101248E 00. DATA 277
290	298 1,00988756 00, 1:00964876 00, 10	00940848 00: 1.6091668E 00: PAPA 278
291	299 1.00892388 00, 1.00867948 00, 1-	9094336\$ 00, 1.8081862E 00/ DATA 279
292	UATA (RSUN \$1); 1+253, 288; / 301 1,00793696 00, 1,00766566 00, 1,	DATA 280 6
294		9074330E 00, 1.9071760E 00, DATA 281 9063901E 00, 1.9061217E 00, DATA 262
295	· 蓝色画:"李宇宇皇帝,是中国教士,自己有一个,有一个有一个,是一种的一种。"	00529528 00, 1.80501828 00, D47A 283
296		90416618 00: 1.8038792E 00: DATA 284
297		0030149E 00, 1.0027265E 00, DATA 285
298	306 1.00243848 00, 1.00215088 00, 12	9018439E 00: 1.9019778E 00: DATA 286
399	307 1.00129278 00, 1.00100858 00, 1,	90072548 00, 1.9004633E 00, DATA 287
900		9960083E-01, 9.9932072E-01, DATA 288
301	DATA (RSUN \$1), 1+289, 324)/	9847883E-01, 9.9819702E-01/ DATA 289
302 FC3		9734739E-01, 9.9706298E001, DAYA 291
404	그 그는 그를 한 문 원조님이 하고 아니면 이 그를 잃어지고 하고 하고 하는 지점 이 때문	96209908-01, 9.9592660E301, DATA 292
805	- コラム - 直手を置くている意識のですが - 上手をあり、さのきに出来る権 - こを	95084300-01, 9.9480730E001, DATA 293
506	314 9.94532566-01, 9.94260458-01, 9-	93991225-01, 9.93728086-01, DATA 294
307	315 9,9346223E-01, 9.9320283E-01, 9-	9294707E-01. 9.9269482E=01. DATA 295
<b>8</b> 08		9195823E-01, 9.9171890E-01: DATA 296
809		\$101551E-01, 9.9078561E-01, DATA 297
\$10 \$11		9)10552E=01, 9.8988219E=01, DATA 298
312	DATA (RSUN (1) (1 2 25, 360)	8722426E=Q1, 9.890Q967E=Q1/ DATA 299 DATA 300 6
813		#8383906=01, 9.8818230E=01, DATA 301
814		8760264E=01, 9.8741874E=01, DATA 302
815		8689874E-01, 9.8673651E-01, DATA 303
816	324 9.8657980E=01, 9.8642857E=01, 9.	8628286E-01, 9.8614231E-01, DATA 304
§17		\$574862E-01, 9.\$562579E-01, DATA 305
318		\$527939E-01: 9.8517079E=01, DATA 306
819		\$486570E-01, 9.8477118E=01, DATA 307
\$20 \$21		8451153E-Q1: 9.8443368E-Q1: DATA 308
322	DATA_(RSUN_\$[];[#361,368]/	\$4229705-01, 9.8417244E501/ DATA 3J9 DATA 310 6
\$23		84036975=01, 9.8-50459E501, DATA 311
824		\$3946920-01; 9.8394050E-01/ DATA 312
825	DATA (RAMOGNEL) 18 1, 35)/	DATA 312 6
\$26	341 6,0670382E 00, 6,2669036E 00, 1x	9220380E-01, 4.1370770E-01, DATA 313
\$27		1835002E 00: 1.4689927E 00: DATA 314
\$28	343 1,796C198E 00, 2,0350126E 00, 2,	2998619E 00, 2.5490243E CO, DATA 315
\$29 \$30		2292989E QQ, 3.446476E QQ, DATA 316
831		1104821E 00: 4.8372174E 00: DATA 317 8082214E 00: 5.2213315E 00: DATA 318
332		82476256 00, 6.82017768 00, DATA 319
333	348 0,2177085E 00, 1:3785791E=01, 3v	\$0851616-01, 5.8710811E-01, DATA 320
834	349 8.1920569E-01, 1.0773391E 00, 1-	8491900F 00: 1.6278097E 00/ DATA 321
335	DATA (BAK 70N(1), 1: 37, 72)	DATA 322 6
336 337		4323833E 00, 2.6778964E 00, DATA 323
838		\$675690% 00, 3.5923072E 00, DATA 324 2747415E 00, 4.5029827E 00, DATA 325
339	354 4.7284772E 00, 4.9492127E 00, 5.	16390348 00, 5.3722900E 00, DATA 326
540	355 5.5751624E 00, 5.7742068E 00, 5.	9717973E 00. 6.1708000E 00. DATA 327
841	370 7,1207087E=02, 3:0267819E=01, 5g	2497448E-01, 7.6031567E-01, DATA 328
842	337 1.0091796E 00, 1.2696234E 00, 1e	\$3711888 00, 1.80557518 00, DATA 329
343		\$705657E 00: 2.808\$122E 00: DATA 330
844	339 3.0409470E 00, 3.2707308E 00, 3.	9003361E 00, 3.9313891E 00/ DATA 331
845 846	DATA (RAMODNAI) 114 73 108 / 361 3:9640504# 00, 4.1975608# 00; 4.	42007615 00 4 45081005 00 DATA 332 6
847		4299261E 00, 4.6588109E 00, DATA 333 5088038E 00, 5.5129722E 00, DATA 334
848		\$123013E 00, 3.8983914E-02, DATA 335
849		05168238-01; 9.5310114E-01; DATA 336
\$50	365 1.21127988 00, 1.47515748 00, 1.	7389633E 00, 1.9979096E 00, DAYA 337
851	366 2.2476869E 00, 2.4889201E co. 28	7226920E 00, 2.9516843E 00, DATA 338
852	367 3,17894078 00, 3,40717788 00, 3,	9382188E 00, 7.8725603E 00, DATA 339
853	368 4.10917568 00, 4.34572488 00, 48	97921495 00, 5.80698658 00, DATA 540
854	369 5.0270463E 00 5.2392911E 00 54	44454934 00. 5.4448330E 00/ DATA 341
\$55	TATA (BANGWASI), I al 09,1441/	DATA 362 6

56	371	5.842847		6.0417883E 00.	6,24512968 00.	1.7321810E=01.	
57	372	3.956492		6:3153029E=01e	8,61319938-01,	1.14276765 00.	DATA 346
58	373	1,480764	00.	1:6765463E 00.	1493990178 001	2.1910687E 00,	DATA 345
59	374	2.431304		5:0055880E 00	2,98710100 60.	3.7062057g 00.	
60	375	3.332334	- ± + + + + + + + + + + + + + + + + + +	3.3384593E QO.	3. 7892585E QV.	4.02486638 00,	
61	376	4.261430		4,49749496 00:	4.72895598 00,	4.9530939E QO.	
62	377	5,148639	E 00.	5.3759:405 000	5,97657905 00.	3.8732616E 00.	- 4
63	378	5.949243		6:16822968 00,	9,09762458-02,	3.07753975501.	DATA 350
64	379	5.387056	B-03	7.85658088-01;	140477189# 00,	1.32042265 00/	DATA 351
65		TA . [RAMOQ!	15178142	45,1801/	0 40880088 00		DATA 392
66	381	1.596317		1,86733386 00,	2,12759058 00,	2.3748216E 00.	
69	382	2.610015		3. #361921# 00.	3,05721195 00.	3.27692956 00.	DATA 354
68	383	3,498596		3.7243738E 00	349549042# 00,	4.1890793E 00.	
69	384	4,424221		4.65680328 001	4466350336 00.	5.10213245 00.	DATA 356
70	3 8 5 3 8 6	5,312078		5.3142509E 00:	5+11075648 QQ.	5.9045447E 00.	DATA 357
71				1.5281775E=02.	2,83464378-01.	4.4450889E=01,	
72	367 388	- IASAMA .		9:36031036-01.	1480569906 00.	1.4846507E 00.	
73	389	1,764309		2.0365134E 00.	2,29623725 00.	2.5424729E 00,	
		2.777097		3.00364756 00.	2.8500262E 00'	3.4479257E 00/	
75 176	291	TA (84M00	30 1 3 4 1 4 2	8 1 1 2 1 8 1 4 2 C	4 47947645 00	4 74-70005 00	DATA 362
	372	34.0.00	E 00,	3,8995847E 00;	4,13063666 00,	4.3633800E 00,	
77 178	393	4.594947		4.8221837E 00:	5,04256356 00,	5.2548229E 00.	DATA 364
79	394	5.459127		5.6568986E 00:	5,85050238 00,	6.8429738E 00,	
80	395	8.330659		1.53671836-01,	3-66842238-01,	5.9178416E=01,	the state of the s
	396	8,330659	[ECOT!	1.09101576 00	1,86259518 00,	1.64132095 00.	DATA 367
81	397	2,929981	E 00:	2:1887839E 00:	244690768 00	5.6935588E 00'	
182 183	898	3.845086	56 00:	3:1604939E 00:	3 2 3 3 3 1 4 8 5 5 00 4	3.6157960E 00.	
84	399			4.0763850E 00,	4,80863278 00,	4.5396808E 00.	DATA 370
	0.70	4.766936		4.9881341E 00,	5-2019371E 00;	5.4081948E 00/	
85	401	TA (BAMOO		217,2521/	2 50574242 00	4 400 40445 00	DATA 372
87		5,607862		5.8028786E 00.	5,99571548 00,	6.1803361E 00,	
	402	1,060059		3:09392126=01.	5 2 3 5 6 7 9 1 6 E - 01 .	7.95568156=01,	DATA 374
88	403	1,000328		1:25892998 00:	1 2 9 2 7 4 9 0 5 5 0 0 .	1.7999326E 00'	
89	404	2,049838		2:3325358E 00.	2,98615672 00.	2.8313747E 00.	
90	405	3.070421		3:3060365E QO.	345406332E 00.	3.7757249E 00.	
91	406	4.011594		4.2472626E 00.	4,48079938 00.	4.7099301E 00.	
92	407	4,932720		5.1480866E 00.	5.35600658 00.	5.55745115 00.	
93	408	5,754181		5.9485224E 00.	6,14317588 00,	5.7882511E=02,	DATA 360
94	409	2.620047		4.75179045001	6+99670725=01,	9.3662257E=01/	
195 196		TA, (RAMOD	APTIBLES	53/288)/	. 9-500445		DATA 382
	411	1,185424		1.4433607E 00	1470598118 00.	1.96831598 00,	
97	412	2.226399	THE RESERVE OF THE PARTY OF THE	2.4782757E 00,	2,72409208 00.	2.96549868 00,	market and the second s
98	413	3,204792		3,4440959E 00.	3.08468556 00.	3.92655776 00:	DATA 385
99	414	4.168343		4:4076631E 00.	4,64184678 00:	4.86873028 001	
100	415	2,087207	25 001	5,2973918E 00.	5,50046966 00.	5.49842065 00.	
01	416	5,893746	25 001	6.0892576E 00.	4,72556825-03,	2.89451776=01:	
02	417 418	4,229081	52 40 7 1	6:4708864E=01:	8+82788985-01,	1.1290710E 00:	
03	419	1,383062	25 00	1.6404539E 00:		2.44838235 00.	
04		2.394021	441.1.	2.6341142E CO.	2x8705873E 00:	3.1060396E 00/	
05	421	3,342978	5 00	1 4971 ADDE AD	T. 8241828E 00	4 47050000 00	DATA 392
07	422		26 00,	3.5831099E 00,	3x8267520E 00,	4.07252878 00,	
08	423	4,317582	) E 00;	4.9583599E QQ	4 7 9 1 6 9 3 3 E 00 .	5.0156596E 00,	
09	424	5.229913	F 00.	5.4355320E 00.	5.03463048 00.	5.8299809E 00	
	425	5.792163	SE 0 4	6.3221905E 00.	1,02504818-01,	3.55109855001	DAYA 396
11	426	1.581344	SE 00,	1.83917806-01.	1.06431245 00:	1.3211499E 001	DATA 397
12	427	2,571240		1.8394262E 00. 2.8022087E 00.	2.09124718 00.	2.4350022E 00,	DATA 398
	428				3 03102498 00.	3.26090448 00.	
13	429	4.466601		3.7331301E 00.	3,97648578 00.	4.2221308E 00.	
14				4.70507838 00.	4,93562728 00.	5.1554866E 00/	
16	431	74 (RAMOD	6 00		5x7624115E 00,	5 95549805 00	DATA 402
	432	5 365287	E 00.	5.56671116 00		5.9556289E 00,	
17		6.149931	16-04	6.5850983E=02.	2473430738-01	4.92758305901	DATA 404
18	433	7.260875	16 00	9:7376345EGQ1:	1.23339136 00.	1.49977115 00.	DATA 405
19	434	1.746174		2.0265647E 00.	2,27739556 00,	2.5181239E 00.	
20	435	2.730571	96 001	2.9779098E 00.	3.20373998 00.	3.434575 00.	
21	436	3.643171	SE 00.	3.9000385E 00.	4-1413334E 00.	4.3834091E 00,	DATA 408
55	437	4,623211	e co.	4. \$366325E 001	5,08098435 00.	5.2952874E QO.	
2 4	436	5,500226		5.6977743E 00.	5.0907413E 00.	6.0824983E 00.	
23	439	6.276609		1.9379327Ec01.	4 8 9 41 47 9 6 E - 01,	6.2776470E501/	
24							
124	DA	DOMARI AT	461361#3				DATA 412
24		TA (RAMOQ 8,647038 1.928846	35-01,	1.1207637E 00, 2.1918297E 00,	1.3867574E QQ: 2.6445328Ê 00.	1.4585221E 00, 2.68707996 00/	DATA 413

```
6,01827066-03,
429
               451
                                          9.34484136-02.
                                                               1,79231718-01,
                                                                                   2.5943321E=01, DATA 415
               452
                      3,29055916-01,
                                           3.8204379E-01.
                                                               4-11960866-01,
430
                                                                                   4.13570595=01, DATA 416
                        .84833496-01.
631
               453
                                           3.28050306-01,
                                                               2449230775-01,
                                                                                   1.56199176-01.
                                                                                                      DATA
432
               454
                        67189596-02,
                                         -4.25850135=02:
                                                             -1.3650091E-01, -2.2103787E-01,
                                                                                                      DATA
               455
                     -2,93092715-01,
                                         -3.5018234E-014
                                                             -3-9033744€-01,
433
                                                                                  =4.1216662E=01,
               456
                        ,15022456-01,
434
                                         -3.9915096E=01.
                                                             -3 4 4571404E-01, -3,1664907E-01,
                                                                                                      DATA 420
435
               457
                     -2,5442434E-01,
                                         -1.8178784E-01:
                                                              G1 - 01587885-01,
                                                                                  -1.6700991E-02:
                                                                                                      DATA 421
                        ,9932735E-02,
               458
                                          1.59170288601,
                                                               2 3 3 4 6 3 6 5 E - Q1.
                                                                                   3.0663990Ee01,
436
                                                                                                      DATA 422
                                          4:0154598E=01,
37:72;/
2:8939449E=01;
437
               459
                      3.63798796-01,
                                                               4+1480055E-01,
                                                                                   4.80160396001/
                                                                                                      DATA 423
438
639
                      A 19CMCGN(1):1:
3:3728576E-01,
                                                                                                       DATA 424
               461
                                                               2,02579226-01,
                                                                                   1.8435282Ea01,
                                                                                                      DATA
440
               462
                      2,24516435-03,
                                         -9:7108836E-02; -1:8833758E-01, -2.6732438E-01,
                                                                                                      DATA 426
441
               463
                     -3.31034218-01, -3.7734156E=01, -4.0494110E-01, -4.1333562E=01,
                                                                                                      DATA 427
                     -4,0284046E-01, -3,7453318E-01, -8,8013262E-01, -2.7183186E-01, -2.0214389E-01, -1:2379937E-01, -5,9708385E-02, 4.7021884E-02,
               464
442
                                                                                                      DATA 428
443
               465
                                                                                   4.7021884E@021
                                                                                                      DATA 429
444
               466
                      1,3302690E=01,
                                          2:14600298=01:
                                                              2,87620136-01.
                                                                                   3.47539528=01, DATA 430
               467
                                                                                   3.8277809E=01.
                        .8970156E-01,
                                           4.09684956=01.
                                                               4.0437429E-01,
445
                                                                                                             431
               468
                        ,1455163E-01,
446
                                           2:3981162E=Q1:
                                                              1,6840473E-01.
                                                                                                      DATA 432
                                                                                   4.900809955021
                     -5.14652246-02,
                                         -1:4744565E=Q1: -2:8306938E-Q1: -3.8436555E=Q1/
447
               469
                                                                                                      DATA 433
                    ATA (BCMOON(1): [ = 73,108)/
-3,5833036E-01, -3,9313951E-01, -4,0811202E-01, -4.6360300E-01,
448
                                                                                                       DATA 434
               471
                                                                                                      DATA 435
               472
450
                     -3.8080940E-01, -3.(151902E-01, -2.878785163E-01, -2.2219781E-01, DATA 436
               473
                        ,4696416E-01,
                                         -6.481(509E=02,
651
                                                              2-13265316-02.
                                                                                   1.8812790E=011
                                                                                                      DATA 437
                      1,91748426-01,
               474
                                                               3.8150068E-01.
3.7851495E-01.
                                                                                   3.2795445E-01,
3.3000740E-01,
452
                                          2.6780719E=01;
                                                                                                      DATA 438
453
               475
                        ,0286197E=01,
                                           4:0331479E-01:
                                                                                                      DATA 439
               476
                      2,61334996-01,
                                                               8.36836700-02. -1.49454815-02.
454
                                          1:7737296E=01:
                                                                                                      DATA 440
                     -1,0981028E-01: -1,9853760E-01: -2,7534017E-01: -3.862955E-01;
               477
455
                                                                                                      DATA 441
               478
456
                     43,78620996-01, -4.0087081E-01, -4.0296427E-01, -3.8599304E-01,
                                                                                                       14TA 442
                  -3.51858866-01, -3.0287495E-01, -2.6146528E-01, -1.7062885E-01/
DAYA (8CMOON(I), I*109;144)/
-9.0966619E-02, -6.8300688E-03, 7-9459336E-02, 1.4437827E-01,
457
               479
                                                                                                       ATA 443
458
                                                                                                      LATA 444
459
                                                                                   1.6437827E=01.
                                                                                                      DATA
                                                                                                            445
                      2,43635805-01,
                                                               3.645994 5E-01:
#60
               482
                                          3.1219059E=01:
                                                                                   3.9579998E=01.
                                                                                                      DATA 446
                                          3.8272411E=01;
1.0546156E=01;
461
                        .0221431E-01,
               483
                                                               3.3895810E-01:
                                                                                   2.8473849E=011
                                                                                                      DATA 447
               484
                      1,9910402E-01,
                                                             1.1119103E-02. =8.2862854E=02. DATA 448
-3.1621531E-01. =3.6451375E=01. BATA 449
462
                        71681375-01, -2.50823275-01,
463
               485
                                                             03-91233228-01,
664
               456
                     -3.9346591E-01,
                                         -4.0219354E-01,
                                                                                  63.6227608Ee01:
                                                                                                      DATA 430
                     -3.1771377E-01, -2.6018605E-01, -1.9228098E-01, -1.1643688E-01, -3,5022785E-02, 4.9452113E-02, 1.3404950E-01, 2.1509536E-01,
465
               487
                                                                                                      DATA 451
               488
466
                                                                                                      DATA 452
               489
                      2.87962755-01,
                                                               3,86760308-01:
667
                                          3.4713066E=01,
                                                                                   4.61897388-01/
                                                                                                      DATA 453
                  DATA (BCMOON(1), 1:149,180,/
3,8995810E-01, 3,5166962E=01,
468
                                                                                                      DATA 454
469
               491
                                                               2-9081384E-01,
                                                                                   2.1301051E=01,
                                                                                                      DATA 455
                     1.2437889E=01, 3.0686351E=02, -642943328E=02, =1.31990UDE=U1, -2.3233991E=01, -3.0030924E=01, -345264076E-01, -3.8681459E=01,
               492
470
                                                                                                      DATA 456
               493
471
                                                                                                      DATA 457
               494
472
                     -4.0438397=-01, -3.9621693E-01, -3.7247456E-01, -3.4230254E-01,
                                                                                                      DATA 458
473
               495
                     -2.7837560E-01,
                                         -2.1348600E=01, -1.4029765E-01, -6.12918467=02, DATA 459
               496
                                          1:0439633E001;
3:7306509E=01;
674
                      2.11254586-02,
                                                               1 8550565E-01,
                                                                                   2.60658528=01, DATA 460
475
               497
                      3.25065126-01,
                                                               3,9888352E-01,
                                                                                   3.98093345=01,
                                                                                                      DATA 461
                      3.6924432E=01, 3.1462473E=01, 2+3958686E=01, 1.5097424E=01; 5.5649785E=02, -4.0325281E=02; -1.3189640E=01; -2.1488276E=01/
476
               498
                                                                                                      DATA 462
               499
477
                                                                                                      DATA 463
                     TA (8CMOON4[), [:181,216]/
-2,8576969E-01, -3,4159734E-01, -3,8001932E-01, -3.9950788E-01,
478
                                                                                                      DATA 464
               501
479
                                                                                                      DATA
                     -3.9958889E-01, -3.8094745E-01, -3.4530548E-01, -2.9510415E-01,
480
               502
                                                                                                      DATA 466
                     -2,3312555E-01,
                                                             -8,4988194E-02, -4.6831227E-03,
               503
481
                                         -1.6218866E=01,
                                                                                                      DATA 467
                                          1.5850595E-01.
                        ,79896956-02,
                                                               2 4 3 4 2 8 4 0 3 E = 01 ,
                                                                                   3.81418675-01, DAYA 468
482
               504
               505
                        .5515434E-01,
                                                               4.0125451E-01,
483
                                           3,90131595=01,
                                                                                   3.85145446-01,
                                                                                                      DATA 469
                       .41568535=01, 2.7390232E=01, 1.8831668E=01, 9.2234738E=02, 0668361E=03, -1.0327180E=01, -1.9127094E=01, -2.6707533E=01, 2763829E=01, -3.7074602E=01, -3.9502859E=01, -4.8004860E=01,
                        41568535-01,
               506
484
                                                                                                      DATA 470
               507
485
                                                                                                      DATA 471
486
               548
                     ·$ .2763829E-01,
                                                                                                      DATA 472
                  -3.8632681E-01. -3.5532131E-01;

DATA (BCMOQN(1), [+217:252,/

-1.8193791E-01, -1.0638398E-01;
               509
                                         -3.5532131E-01; -3,0917297E-01; -2.5045689E-01/
487
                                                                                                      DATA 473
488
                                                                                                      DATA 474
                                                                                   5.49542755-02:
489
                                                             --- 45201655-02,
                                                                                                      DATA 479
                      1,3525955E-01,
3,7739465E-01,
                                                               2,79352396-01,
3,9284778E-01,
                                          2:1:37(1:2-0.;
3:9737261E=01.
                                                                                   3.36693235-01.
490
               512
                                                                                                      DATA 476
491
                                                                                   3.6201147E-01.
               513
                                                                                                      DATA 477
                      3.0593107E=01, 2:2865786E=01,
                                                               1.3647842E-01.
492
               514
                                                                                   3.67307615-02:
                                                                                                      DATA 478
                                                             -2.3781876E-01, -3.8716292E-01, -3.9712865E-01, -3.8845274E-01,
               515
                     -6.3316465E-02. -1.5723567E-01.
493
                                                                                                      DA9A 479
494
               516
517
495
                                                             -2465323536-01, -1.7976152E-01, DATA 481
                     -3.6216530E-01: -3.2031921E-01.
496
                     -1,2428842E-01, -4.7604860E-02,
                                                               3,85135646-02,
                                                                                   1.1415080E=01, DATA 482
                         9116592E-01, 2.6111239E-01, (BCMOJN[[]]]1=253,286]/
                                                                                   3.6440809E=01/
497
                        .9116592E-01,
                                                               3420204736-01,
                                                                                                      DATA 483
498
                                                                                                      DATA 484
                        8974606E-01,
                                          3,9287904Ec01,
499
                                                               3,71858925-01,
                                                                                   3.2678455E-01,
                                                                                                      DATA
                                                                                                            485
               522
523
                        .6006059E=01, 1:7616476E=01, 8x1066310E=02, 01.8494913E=02, DATA 486
.1572348E=01, -2.0439321E=01, 62x7933061E=01, 03.9573529E=01, DATA 487
900
                      2.6006059E=01,
                                                                                                      DATA 486
501
```

```
524
                    -3,7433727E-01, -3,9138827E-01, -3,8847959E-01, -3,6721236E-01, DATA 488
-3,2980467E-01, -2,7874613E-01, -2,1657736E-01, -1,4581088E-01, DATA 489
202
$03
904
              526
                                                            9422534076-02,
                       .89641005-02,
                                         1.13409665602,
                                                                               1.70501075e01, DATA 490
905
              527
                       .4272720E-01,
                                                            3492419898-01,
                                         3.0472346E001.
                                                                               3.81863105001,
                                                                                                 DATA
                                                                                                       491
                                                            3+87208798-01: 2.78582338-01:
1+93262028-02: -7.67607048-02/
506
              528
                      .8998617E-Q1,
                                         3.75039006-014
                                                                                                 DATA
907
                                         1.1445869EG01;
                                                                                                 DATA 493
                       .02708465-01,
908
909
                   ATA (8CMOON41):1:289,324)/
-1,6780836E-01, -2,4816751E-01; -3,1301799E-01, -3,5885665E-01,
                                                                                                 DATA
                                                                                                       494
              531
                                                                                                 DATA 495
                       .8385207E-01,
$10
              532
                                       -3.8791800E-01; -3.7244327E-01; -3.4977785E-01;
                                                                                                 DATA 496
                    -2,9268368E-01,
-1,2967680E-02,
511
512
              533
                                       -2.3393248E=01;
                                                          -1.0611963E-01, -9.1669889E-02,
                                                                                                 DATA 497
              534
                                                           144662981E-01.
347421605E-01.
                                         6.7438822E=02,
                                                                               2.211398350011
                       ,86903365-01,
913
              535
                                         3.3941775E-01:
                                                                               3.8763897E-01, DATA 499
714
              536
                      ,7768150E=Q1,
                                         3.4452027EGQ1.
                                                            2490442586-01,
                                                                               2.4927850E=014
                                                                                                 DATA 500
915
                      ,3571014E-01,
                                         4.47693988-02: -4.84038618-02: -1.88648898-01:
              537
                                                                                                 DATA SCI
              538
                    -2,2087522E-01, -2,9028723E-01, -8,4279215E-01, -3.7551963E-01,
916
                                                                                                 DATA 502
              339
517
                    -3.87252406-01,
                                      -3.78530'3E=01, =3.5133272E-01, =3.8848728E=01/
                                                                                                 DATA 503
718
719
                    TA (BCMOOM41):1:325,360).
-2,5306935E-01, -1:8800199E-01; -1:1590535E-01, -3.9149408E-02.
                                                                                                 DATA 504
DATA 505
$20
              542
                     3,99622116=02,
                                        1:1893731E=01,
                                                            149482047E-01,
                                                                               2.4394645E=011
                                                                                                 DATA 506
              543
                     3.2197697E-01,
                                                            3,8531081E-01,
                                                                               3.8275042Ec011
921
                                         3.6396847E=01.
                                                                                                 DATA 507
              544
                     3.5545268E-01,
                      .5545268E=01, 3:0534828E=01, 2:3658118E=01, 1:5447331E=01, 4599136E=02, -2:7728878E=02, -1:1760097E=01, -2:8046555E=01,
                                                                               1 5447331Ee011
922
                                                                                                 DATA 508
923
924
              545
                                                                                                 DATA 509
              546
                    -2,7209239E-01,
                                       -3.2868316E-011
                                                          -3,6717939E-01, -3.6569033E-01,
                                                                                                 DATA 510
923
              547
                                                                                                 DATA 511
                    -3,8383465E-01,
                                       =3.6277496E=01, =3.2488232E-01, =2.7318484E=01,
              548
                    "2,10842015-01,
9.0180963E-02,
                                       -1.40807996-01, -6.57173076-02,
1.46175226-01, 2x37062966-01,
                                                                               1.20496145 2021
926
927
                                                                                                 DATA 512
              549
                                                                               2.9915941=01/
                                                                                                 DATA 513
                 DATA (BCMOON4[],[+361,368]/
3,4801684E-01, 3,7874619E-01,
258
                                                                                                 DATA
                                                                                                       514
929
              551
                                                            3,8689281E=01,
                                                                               3.6073078E-01,
                     3.2738084E=01,
930
              552
                                        2.63041985-01,
                                                           1.8219086E-01.
                                                                               9.13019405-02/
                                                                                                DATA 516
                  DATA (RMOON $1):18
931
932
                                         1, 361/
                                                                                                 DATA 516
                     6,2088429E 01,
              561
                                                                               5.9514833E Q1,
                                        6,1336888E
                                                     01 .
                                                            6.0466013E 01.
                                                                                                 DATA 517
$33
              562
                      .8540477E 01,
                                        5.7615742E
                                                            5,6822605E 01,
                                                                               5.6241383E 01, DATA 518
                                                     011
                                                            5 4 6 2 6 6 7 7 1 E
                     5.5936960E 01,
934
              563
                                        5.5945591E Q1.
                                                                               5.4663310E 01, DATA 519
                                                                        011
935
              564
                      .7669574E
                                                            5.9586238E Q1,
                                         5.8604688E
                                                                               6.8541145E
                                 01,
                                                                                                 DATA
                                                     01.
                                                                                            011
$36
                      ,1411946E 01,
              565
                                                            6.2761899E Q1,
                                        6.2159429E 01,
                                                                               6.8212512E 011
                                                                                                 DATA 521
                      ,3515662E 01,
937
              566
                                        6.3682776E 01.
                                                            6.$728225E 01:
                                                                               6.3669703E D1: DATA 522
                      ,3505565E
938
              567
                                                            6.29098275
                                  01,
                                        6:3253376E
                                                                        01,
                                                                               6.2472140E Q1.
                                                     01 4
                                                                                                 PATA 523
                                                            6 0579095E 01.
739
              568
                                        6:1303562E
5:8114925E
                     6,1936854E
5.8944049E
                                                     014
                                  01:
                                                                               5.9781653E 01.
                                                                                                 DATA 524
              569
                                                                               5.6740158E 01/
$40
                                 01,
                                                            5,7356803E 01,
                                                     01:
                                                                                                 BATA 525
                  DATA (MOON 11), 1:
                                        37: 721/
                                                                                                 DATA 52
542
              571
                                        5.6190727E 01,
                                                            5+4339554E 01,
                                                                               5.6774108E 01:
                                                                                                 DATA 527
                      ,7455198E 01.
              572
943
                                        5:8317617E 01:
                                                            5,92818698 01,
                                                                                                 DATA 528
                                                                               6.0266513E 01/
                      ,1198205E
,3485627E
544
              573
                                 01.
                                                                               6.3176821E 01, DATA 529
                                        6:2018206E 01.
                                                            6,26854428
                                                                        011
              574
                                                           6,3593159E
945
                                                                        011
                                                                               6.3432142E 01, DATA 530
                                  01,
                                         6.3618742E 01.
546
              575
                                                                               6.1915478E 01, DATA 531
                     6.3161380E 01.
                                         6.2805475E 01.
                                                            6.2385131E 01.
547
                                 01,
              576
                       14058895
                                         6.0861396E
                                                            6-0285495E
                                                                               5.9683964E
                                                                        01.
                                                                                            Q1. DATA
                                                     01,
                                                                                                       532
              577
                     5,9068956E 01,
                                                            5 7 8 9 7 9 5 1 E
                                         5.8462473E Q1.
                                                                         01.
                                                                               5.7419049E Q1,
                                                                                                 DATA 533
                     5,7075082E 01,
549
              578
                                                            5,4969461E 01,
                                         5 6913314E 01.
                                                                               5. 2258889E 011
                                                                                                 DATA 534
750
              579
                       .7771255E 01,
                                         5.8470431E
                                                            5.9299603E 01,
                                                                               6.9189840E 01/
                                                     01,
                                                                                                 DATA 535
                      (RMOON (1):1*
,1069504E 01,
                                        73,1081/
6,1872600E
951
952
                  DATA
                                                                                                 DATA 536
              581
                                                            6,2544796E Q1,
                                                     01,
                                                                               6.3046993E 01.
                                                                                                 DATA 537
              582
                       .3356762E 01,
                                         6.3468127E
                                                            6,83901216 01,
$53
                                                                               6.3144423E C1: DATA 538
6.3171356E Q1: DATA 539
                                                                               6.3144423E
                                                     01.
554
              583
                     6,2762242E 01,
                                                     011
                                                            6,17381946 01,
355
              584
                       :0610453E 01,
                                         6.0617639E 01,
                                                            5,9586323E 01,
                                                                               5-9147579E 01, DATA 540
                     5.8748268E 01,
5.7769992E 01,
                                 01,
                                        5.8405105E
5.7749698E
                                                            5 × 8118597E
              585
356
                                                                               5.8900663E
                                                                        014
                                                                                            O1. DATA
957
              586
                                                            5,78625325
                                                                        01.
                                                     01 .
                                                                               5.6124712E
                                                                                                 DATA
                                                                                                       542
                                                                                            01 :
558
              587
                     5.8540011E 01,
                                         3.9095851E
                                                                                            01. DATA 543
                                                     011
                                                            5,9762536E Q1,
                                                                               6.6495793E
559
                       ,1241838E
              588
                                  01,
                                         6.19436345
                                                            6.2547067E
                                                                               6.3006124E 01,
6.2938267E 01/
                                                                        01.
                                                                                                 DATA
560
                     6.3286712E 01,
                                         6.33691025 01.
                                                            6-3249129E 01,
                                                                                                 DATA
                                                                                                       545
561
562
                  DATA
                       (RMOON $1), 1 * 109, 144, /
2462615E 01, 6, 1860763E
                                                                                                 DATA 546
                       ,2462615E
              591
                                                     01;
                                                            6.1180493E 01,
                                                                               6.8474285E 01,
                                                                                                 DATA 347
                       .9793918E 01.
563
              592
                                         5,9184787E 01,
                                                            5x8680979E 01.
                                                                               5.8302236E 01, DATA 548
                       ,8053639E
964
              593
                                 01,
                                         5.7928165E Q1,
                                                                               5.8987117E 01, DATA 549
                                                            5,7911416E
965
966
              594
                                  01,
                                         5.8367712E
5.9966719E
                                                                               5.9027442E
6.3119142E
                       .8141845E
                                                            5.8662502E
                                                                                                 DATA
                                                                                            011
              595
                      5.9463407E 01,
                                                            6,05257435
                                                                         01:
                                                                                                 DATA
                                                                                            01:
967
              596
                      6.1716208E 01.
                                         6.2279076E Q1.
                                                            6,27662768 01,
                                                                               6.4136961E 01,
                                                                                                 DATA 552
                                                            6.0867025E 01.
              597
968
                     6,3355136E
                                 01,
                                         6:3393508E 01;
                                                                               6.2883267E
                                                                                                 DATA 553
                                                                                            01:
                     6,2347800E 01,
5.9198494E 01,
569
              598
                                                                               6.0024649E
                                                                                                 DATA 554
                                         6:1660604E 01;
                                                                                            011
              599
$70
                                         5.8454288E
                                                            5,7850342E 01,
                                                                               5.7429593E
                                                                                            21/
                                                                                                 DATA 555
971
972
                       (RMOON $1
                                        45.180./
5.7201740E
                                                                                                 DATA
              601
                                                      01,
                                                            5, 3372093E 01,
                                                                               5.2690003E 01:
                                                                                                 DATA
                                                                                                       557
                                                            5,9142702E 01,
              602
                     5,8115286E
                                  01.
573
                                         5.$609851E
                                                     011
                                                                               5.9691910E
                                                                                            011
                                                                                                 DATA
                     6.0243831E
                                                                               6.1840891E 01,
              603
                                                            6+13253226
                                         6.0790365E
                                                     01,
                                                                                                 DATA
```

```
975
976
              604
                      6.2324963E 01,
6.3521367E 01,
                                         6.2759812E 01.
6.3504151F 01.
                                                                                 6.8385497E Q1, DATA 560
                                                             6.3122302E 01,
                                                             6.8314006E 01,
                                                                                 6.2940571E 01+
                                                                                                   DATA 561
                                         6:1668162E 01:
5:8077286E 01:
$77
$78
                       .2386139E
                                                             6-0820776E 01,
5-7336060E 01,
                                   01,
                                                                                 5.9894794E 01:
                                                                                                   DATA
                                                                                                         562
                                                                                 5.4798141E 01.
                                                                                                   DATA 563
979
              608
                      5.6809715E 01,
                                         5.6488822E 01:
                                                             5x67230718 01.
                                                                                 5.8173920E 01: DATA 564
              608
580
                      5.7785937E 01.
                                         5.84978338 01.
                                                             5x92921385 01,
                                                                                 6.80016526 01/
                                                                                                   DATA 565
                       18MOON $11/1=1
07122156 01,
                  DATA
                                         81,216
981
                                                                                                   DATA 566
952
                                         6.1362321E 01;
                                                             6.1940584E 01,
              611
                                                                                 6.2442160E 01,
                                                                                                   DATA 567
                                                             6.8460640E 01,
6.8361924E 01,
                      6.2864979E 01.
                                                                                 6.8617925E 011
983
              612
                                          6.3206376E 01.
                                                                                                   DATA
                                                                                                         568
                                                                                 6.2984430E 011
                      6.3664549E 01,
                                         6.3584501E 011
                                                                                                   DATA 569
384
              613
              614
                      6.2446840E 01.
                                                             640928502E 01,
                                                                                 6.9004054E Q1,
985
                                         6.1754898E Q1.
                                                                                                   DATA 57"
586
              615
                      5,90351376
                                  01.
                                         5.8090524E 01.
                                                             5x7248678E 01,
                                                                                 5.4588387F 01, DATA 571
                       ,6176484E 01,
                                                             5.62344245 01.
587
                                         5.6055381E
                                                                                 5.0680297E Q1, DATA 572
                                                      01.
                      5.7363159E 01,
6.0849923E 01,
                                                             5.9087918E 01.
6.2269753E 01.
388
589
              618
                                         5.8188097E 01.
6.1616623E 01.
                                                                                 5.7993770E 01: DATA
6.2798388E 01: DATA
                                                                                                         574
                  DATA (RMOON (1), 1:217,252,7
6,3663568E 01, 6,3510411E 01,
990
                                                             6486508698 01,
                                                                                 6.3710055E 01/
                                                                                                   DATA 575
991
                                                                                                   DATA 576
392
              621
                                                             6,3246195E 01,
                                                                                 6.2864770E 01,
                                                                                                   DATA 577
                      6.2361053E 01.
5.9266311E 01.
593
              622
                                         6.1734685E 01.
                                                             5.0993925E 01.
                                                                                 6.8159282E 01.
                                                                                                   DATA 578
594
              623
                                                                                 5.4818226E 01.
                                         5.8366616E 01.
                                                             5.7525909E 01.
                                                                                                   DATA 579
                                                                                 5.6491545E 01,
5.9823488E 01,
595
              624
                      5.6316139E 01.
                                         5.6078263E
                                                      01.
                                                             5.6137146E 01,
                                                                                                   DATA 580
396
              625
                      5,7106060E 01,
                                         5.7918278E 01.
                                                             5.8850713# 01.
                                                                                                   CATA 581
997
              626
                      6.07644845 01,
                                         6.1615856E 01.
                                                             6+2336846E 01.
                                                                                 6.2903760E 01. DATA 582
                      6.3307977E 01.
6.3468576E 01.
                                         6.3552859E 01.
6.3222994E 01.
                                                             6.2891597E 01.
                                                                                 6.3616221E 01, DATA 583
6.2482068E 01, DATA 584
998
              627
599
              628
                      6.1998271E 01,
                                                             6.0817644E 01.
              629
                                         6.1442299E 01.
600
                                                                                 6.8132957E 01/
                                                                                                   DATA 585
                  DATA (RMOON 11) 11:253,288,/
5.9405823E 01, 5.8663768E 01,
601
                                                                                                   DATA 586
                                                                                 5.7328786E 01,
              631
                                                             5.7955423E 01,
                                                                                                   DATA 587
                      5.6845893E 01,
              632
                                         5.6563940E 01.
                                                             5 4 6 5 2 6 5 3 4 E 01,
033
                                                                                 5.6753551E 01. DATA 588
              633
                      5.7235249E 01,
604
                                         5,7932608E 01.
                                                             5.8783820E 01,
                                                                                 5.9714557E 01, DATA 589
              634
                                          6:1517816E 01:
605
                      6.0648810E 01,
                                                             6.2266069E Q1.
                                                                                 6.2854456E 01, DATA 590
                      6.326098CE 01,
6.3138945E 01,
              635
                                         4.3479709E
                                                             6 8518538E 01.
606
                                                                                 6.3396230E 01, DATA 591
                                                      01.
                                                             6,2338 56 01,
607
              636
                                                                                 6.1852532E
5.9753270E
                                         6.2776531E
                                                                                                   DATA
                                                                                              01:
                                                                                                         592
                      6.1338743E Q1.
808
              637
                                         6.3812201E 01.
                                                             6 0281637E 01.
                                                                                                   DATA 593
                                                                                              01:
609
              638
                      5.9231726E 01,
                                         5.8726443E 01.
                                                                                 5.2839192E 01, DATA 594
                                                             5.8253808E 01,
              639
                      5.7516212E 01,
                                         5.7.122955E 01,
                                                             5x7295444E 01,
                                                                                 5.8459610E 01/
610
                                                                                                   DATA 595
                  DATA (RMOCN 41), 1=269,324,/
5.7823917E 01, 5.8374926E 01,
611
                                                                                                   DATA 596
              641
                                                             5.9077261E 01.
                                                                                 5.9877904E 01, DATA 597
              642
                                                             6x2230935E 01,
                      6.0713407E 01.
                                                                                 6.28n2001E 01;
6.3187606E 01;
613
                                         6.1518006E
                                                      01.
                                                                                                   DATA 598
614
              643
                      6.3195185E 01,
                                                             6-8384053E 01,
                                          6:3390453E 01:
                                                                                                   DATA 599
615
                      6,2826186E 01,
              644
                                                                                 6.1139294E 01, DATA 600
                                         6:2335486E 01,
                                                             6.1758130E 01,
               645
$16
                      6,05219916 01,
                                         5.9942650E 01:
                                                             5,9427789E 01,
                                                                                 5.899255E 01: DATA 601
617
              646
                      5,8641586E 01,
                                         5.83720455 014
                                                                                 5.8055469E 011
                                                             5.81780811 01.
                                                                                                   LATA 602
              647
                      5.8005129E C1.
                                         5:3034476E 01:
                                                             5-8156087E 01:
618
                                                                                 5.8383938E 01. DATA 603
619
              648
                                   01.
                                         5.9189513E
                                                             5.9755933E
                       .8728122E
                                                      010
                                                                                 6.8400871E 01.
                                                                                                   DATA 604
                                                                          011
                                         6.1760347E Q1,
                                                             6x2375058E 01,
                                                                                 6.2879440E 01/
$30
                      6.1085050€
                                  01.
                                                                                                   DATA 605
                  DATA (RMOON 11), 1=325/360)/
6,3230709E 01, 6,3397
621
                                                                                                   DATA 606
              651
422
                                                             6 $ 3 3 6 Q 4 3 1 E 01 .
                                                                                 6.8118534E Q1.
                                                                                                   DATA 607
              652
                                         6.2090391 01:
5.9102787E 01:
                      6.2685270E 01.
                                                             6,1377712E 01.
                                                                                 6.9601879E Q1. DATA 608
623
                       ,98234968 01.
              653
624
                                                             5.8492460E Q1.
                                                                                 5.8031115E 01, DATA
                                                                                                        609
              654
655
                       ,7738816E
                                  01.
                                          5.7616170E
$25
                                                             5.7647272E 01.
                                                                                 5.786564E 01, DATA 610
                                                      01.
                      5,8061504E 01,
5,9633547E 01,
                                                             5 87652878
                                                                          011
$26
                                         5.8387937E
                                                      012
                                                                                 5.9182055E 01:
                                                                                                   DATA 611
427
              656
                                                             6.0633543E 01.
                                          6.0118261E 01.
                                                                                 6.1171636E 01.
                                                                                                   DATA 612
               457
                      6,1717066E 01:
6,3399461E 01;
                                                             6.27266996 01,
                                                                                 6.4123547E 01.
628
                                         6:2245868E 01:
                                                                                                   DATA 613
                                                             6.8460938E 01.
               658
629
                                         6:3520723E 01:
                                                                                 6.3204682E 01,
                                                                                                   DATA 614
430
                      0.27505298
                                   0%.
                                                             6-1325023E 01.
                                         6.2113265E Q1.
                                                                                 6.8434917E 01/
                                                                                                   DATA 615
                        (RMOON (1), [*361,368)/
95,664,0E 01, 5:8613507E 01:
6847003E 01, 5:6717946E 01;
                  DATA
                                                                                                   DATA
931
                                                                                                        616
                      5.9506640E 01,
5.6847003E 01,
              661
662
                                                             5.7830741E 01:
5.6832482E 01:
                                                                                 5.7225577E 01:
5.7159197E 01/
                                                                                                   DATA
                                                                                                        617
032
033
                                                                                                   DATA 618
                                                                                                   DATA 619
634
```

29748 WORDS OF MEMORY USED BY THIS COMPILATION

```
71034 02 11-03-72 11.666 1974 ERHEMERIS
```

```
PROGRAM BREAK 4273
COMMON LENGTH 0
V COUNT BITS 5
```

PRIMARY SYMDEF ENTRY

PREFACE

```
TABLE D
SECONDARY SYMDEF ENTRY
```

BLOCK LENGTH

1 ENHBLM

11

SYMREP

END OF BINARY CARD \*1974\*19

4273 IS THE NEXT AVAILABLE LOCATION.

GMAP VERSION/ASSEMBLY DATES JMPA 110171/102971 JMPB 110171/102971 JMPC 110171/102971

THERE HERE NO WARNING FLAGS IN THE ABOVE ASSEMBLY

\*\* 19411 WORDS OF MEMORY WERE USED BY GMAP FOR THIS ASSEMBLY:

71034 08 11-03-72 11.690 1975 EPHEMERIS

1 C#1975+ 1975 EPHEMERIS	DATA 1
2 SUBROUTINE TABLE	DATA 2
3 DIMENSION RASUN (369), DCSUN (369), MSUN (369)	DATA 3 DATA 4
DIMENSION RAMOUS(369), DCMOON(369), RECON(369) DIMENSION ARRAY(2214)	DATA 4
6 DOUBLE PRECISION Y	
7 EQUIVALENCE (RASUMIARRAY); (DCSUM, ARREY(370)), (RSUM, A	RAV(739))
6 EQUIVALENCE (RAMODM, ARRAY(1108)), (DEBOON, ARRAY(1477))	
9 EQUIVALENCE (RMOON ,ARRAY(1846))	
10 COMMON EPHBLK, 4(4), 1	
11 Y(1) # ARRAY(1)	
12 Y(2) = ARRAY(I*1)	
$\frac{13}{3} \qquad \qquad Y(3) = ARRAY(1+2)$	
14 Y(4) * ARRAY(1+3)	
15 RETURN	n •
16 DATA (RASUN (1), 1 1; 36)/ 17 11 4.8817250E 00, 4.9010103E 00, 4.9202750E 00, 4.9	DATA 6
	62236E 00, DATA 8
	24081E 00: DATA 9
	79350E 00, DATA 10
21 15 5.19669985 0, 5.2054146E 10, 5.2240780E 00, 5.2	26887E 00, DATA 11
22 16 5.26124558 00, 5.27974758 00, 5.29819378 00, 5.3	65835E 00, DATA 12
23 17 5.33491596 00, 5.35319026 00, 5.87140636 00, 5.8	395636E 00, DATA 13
	16047E 00. DAYA 14
25 19 5.4794684 00, 5.4972744E 00, 5.5150225E 00, 5.5	327128E 00/ DATA 15
26 DATA (RASUN (1), 1 = 37, 72)/	DATA 16
27 21 5.53034546 00, 5.56792046 00, 5.58543796 00, 5.6 28 22 5.62030086 00, 5.63764646 00, 5.65493346 00, 5.6	28980E 00, DATA 17
그는 그는 말을 불통하고요요요요요요요요 그는 불통점이 있는 중요요 이 그는 그 등록이 그리고 요즘 이 이 그 그	'21680E 00, DATA 18
	80680E 00, DATA 20
	47941E 00, DATA 21
32 26 5.89135945 00, 5.00788395 00, 5.92436035 00, 5.9	107994E 00, DATA 22
33 27 5.9571998E 00, 5.9735634E 00, 5.9898917E 00, 6.8	61359E 00, DATA 23
	10498E 00, DATA 24
	54727E 00/ DATA 25
36 UATA (RASUN \$1) 11 = 73 1081/	DATA 26
37 31 6.1515190E 00, 6.1675441E 00, 6.1835494E 00, 6.1	95361E 00: DATA 27
38 32 6.21550556 00, 6.2314570E 00, 6.2473978E 00, 6.2 39 33 6.2792368E 00, 1.1954059E=02, 2.7867354E-02, 4.3	33233E QQ. DATA 28
	32876E002: DATA 29 23047E201: DATA 30
	74676E001, DATA 31
	38774E=01, DATA 32
45 37 2.5032784E-01, 2.6628242E-C1, 2.8225273E-01, 2.9	239985-01, DATA 33
44 38 3.1424528E=01, 3.3026978E=01, 3.46631455E=01, 3.6	36057EaC1: DATA 34
45 39 3.7846883E=01, 3.9458027E=01, 4.1071578E=01, 4.2	87614E=01/ DATA 35
46 DATA (RASUN (1): 1+109,144)/	DATA 36
	78248E=01, DATA 37
48 42 5.0008004E-01, 5:2440793E-01, 5:4076762E-01, 5.5	16041E=01, DATA 38
	06592E=01: DATA 39
	762202E=01: DATA 46 80871E=01: DATA 41
	667045-01, DATA 42
	19485E=01, DATA 43
54 48 9.1042871E=01, 9.2770218E=01, 9.4501492E=01, 9.6	36655E=01, DATA 44

```
49
                      9.7975674E=01,
                                          9.9718493E=01,
                                                             1-0146512E 00,
                                                                                1.8321552E 00/ DATA
                  DATA (RASUN (1), [=149;180]/
1,0496969E 00, 1.0672756E
 56
57
                                                                                                    DATA
                                                                                                           46
                                                                                                                 6
                                                      00,
                                                             1x0848911E 00,
                                                                                 1.1025426E
                                                                                              00.
                                                                                                   DATA
                                                             1,15570748
 58
                                          1:1379516E
                       ,1202296E
                                                      000
                                                                           00.
                                                                                 1.1734965E
1.2449637E
                                   00,
                                                                                              QO: DATA
                                                                                                           48
 59
                                                             1,2270524E
                      1.19131766 00,
                                          1:2091700E
                                                      00,
                                                                           00.
                                                                                              QO. DATA
                                                                                                           49
 60
                      1,2629026E 00,
                                          1:28086798
                                                             1.2988579E 00.
                                                      000
                                                                                 1.3168710E
                                                                                              QO. DATA
                                                                                                           50
                                  00,
                55
                       .3349057E
                                          1.3529601E
                                                      00,
 61
                                                             1.3710322E 00.
                                                                                 1.8891200E
                                                                                              DO DATA
                                                                                                           51
                56
 62
                      1,4072215E
                                          1:4253345E
                                                             1 4 4 4 3 4 5 7 5 E QQ .
                                  00,
                                                                                 1.4615884E
                                                                                               CO. DATA
                                                                                                           52
                57
                      1,4797258E 00,
 63
                                          1:4978678E 00:
                                                             1.5160130E 00.
                                                                                 1.5341600E 00: DATA
                                                                                                           53
                58
                       ,5923074E
 64
                                  00,
                                          1:5704536E QO.
                                                             1 9885971E QQ.
                                                                                 1.6067364E 00: DATA
                                                                                                           54
                  1.6248700E 00, 1.6429966E 00,
DATA (RASUN 11, 1=16),216,/
1.6973187E 00, 1.7154021E 00,
                59
 65
                                                             1 86611145E 00,
                                                                                 1.6792224E 00/ DATA
                                                                                                           55
 66
                                                                                                    DATA
                                                                                                           56
                61
                                                             1,7334710E 00,
                                                                                 1.75152408 00,
                                                                                                           57
                                                                                                   DATA
                62
                      1,7695595$ 00,
                                                             1 8055724E 00.
 68
                                          1.7875762E 00.
                                                                                 1.82354656 001
                                                                                                   DATA
                                                                                                           58
                      1.8414969E 00,
 69
                63
                                                             1.87731995 00,
                                         1:8594220E 00.
                                                                                 1.4951888E QO, DATA
                                                                                                           59
                      1,9130270E 00,
1,9840428E 00,
                                          1.9308328E
 70
                                                      000
                                                             1x9486049E Q0,
                                                                                 1.9663419E 00, DATA
                                                                                                           60
 71
                65
                                                             2 201933186
                                          2.0017063E
                                                                           00:
                                                                                 2.9369185E
                                                                                              QO: DATA
                                                      00.
                                                                                                           61
                                          2:0719726E
 72
                66
                      2.0544657E 00.
                                                             2 + 0894387E
                                                                          00.
                                                      00.
                                                                                 2.1068635E
                                                                                                   DATA
                                                                                              000
                                                                                                           62
                      2.1342466E 00,
2.1933572E 00,
 73
                67
                                          2.1415878E
                                                             2-15888686
                                                                                 2.1761433E 00,
2.2447432E 00,
                                  00.
                                                       000
                                                                          00,
                                                                                                   DATA
                                                                                              100
                                                                                                           63
                68
 74
                                          2:2105286E 00:
                                                             2 8 2 7 6 5 7 3 E 00 ,
                                                                                                   DATA
                                                                                                           64
 75
                69
                      2.2617866E 00,
                                         2.2787872E 00,
                                                             2 2957453E 00,
                                                                                 2.3126606E 00/
                                                                                                   DATA
                                                                                                           65
                   2.3295332E 00, 2.3463632E 00,
 76
                                                                                                           66
                                                                                                   DATA
                71
                                                             2,3631501E 00,
                                                                                 2.3798939E 00. DATA
                      2.39659436 00,
 78
                72
                                                             2,42986548 00,
                                          2:4132514E 00:
                                                                                 2.4464363E
                                                                                              DO: DATA
                                                                                                           68
                      2.4629647E 00,
2.5286606E 00,
                                                                                 2.5122979E 00, DATA
2.5775134E 00, DATA
                                         2.4794506E 00.
2.5449835E 00.
 79
                73
                                                             2449589478 00.
                                                                                                           69
                74
 80
                                                             2 9612675E 00:
                                                                                                           70
 81
                75
                      2.5937223E 00,
                                         2,6098953E 00.
                                                                                                           71
                                                             2 4 8 2 6 0 3 3 5 E 00,
                                                                                 2.4421381E 00, DATA
                76
                      2,6582102E
2,7221998E
 82
                                   00.
                                          2:6742512E
                                                                                 2.7062447E QO. DATA
                                                      000
                                                             2.6902622E 00.
                                                                                                           72
                77
                                                             2 7 7 5 4 0 3 3 1 6
                                                                          00,
 83
                                  00,
                                          2:7381289E
                                                                                 2. 3699137E 00. DATA
                                                      000
                                                                                                           73
 84
                78
                      2.78577178 00.
                                          2.8016085E 00:
                                                             2 8 8 1 7 4 2 4 8 €
                                                                                 2.8332216E
2.8962339E
                                                                                              000
                                                                           00.
                                                                                                   DATA
                                                                                                           74
                79
                                                                           00,
 85
                      2.8489998E 00,
                                                             2,8805049E
                                          2.8647606E
                                                      00,
                                                                                                   DATA
                                                                                                           75
 86
                  DATA (RASUN 11) (142531288) /
2,9119486E 00, 2,9276499E
                                                                                                           76
                                                                                                   DATA
                      2.91194865
                81
                                                      00 .
                                                             2,9433393E QO,
                                                                                 2.9590181E QO:
                                                                                                           77
                                                                                                   DATA
                       , 9746875E
                                  00,
 88
                                         2.9903486E 00,
                                                             3.0060031E 00:
                                                                                 3.8216523E 00: DATA
                                                                                                           78
                       ,0372980E 00.
 89
                93
                      3
                                          3.0529417E
                                                      00.
                                                             3.0685852E QQ.
                                                                                 3.9842301E 00. DATA
                                                                                                           79
 50
                84
                      3.0998782E 00,
                                                             3+1311909E 00.
                                          3:1155312E
                                                      00,
                                                                                 3.1468590E 00. DATA
                                                                                                           80
 91
                                          3.1782274E
                       ,1625373E 00,
                                                             3,1939310E
                                                                          00.
                                                                                 3.2096496E
                                                      00.
                                                                                              DO. DATA
                                                                                                           81
 92
                86
                      3,2253848E 00,
                                                                                 3.2727045E
                                          3.2411382E
                                                      00.
                                                             3.2569110E 00.
                                                                                              QO. DATA
                                                                                                           82
 93
                87
                      3.28851998 00,
                                          3:3043590E 00:
                                                             3-3505559E 00'
                                                                                 3.4361121E 00, DATA
                                                                                                           83
                88
 94
                       ,3520286E 00,
                                         3.3679729E 00.
                                                             3.3839466E 00:
                                                                                 3.3999507E 00, DATA
                                                                                                           84
                89
 95
                      3.4159864E 00,
                                          3.4320546E 00.
                                                             3-4481569E 00.
                                                                                 3.4642947E 00/ DATA
                                                                                                           85
                  DATA (RASUN (1), 142891324, 7
3,4804693E 00, 3,496662
 96
                                                                                                   DATA
                                                                                                           86
                                         3,4966823E
 97
                                                             3.5129351E 00,
                                                                                 3.5292293E
                                                      00,
                                                                                              00.
                                                                                                   DATA
                                                                                                           87
                92
 98
                      3,5455664E 00.
                                          3.5619477E
                                                      00 4
                                                             3,97837496
                                                                          00:
                                                                                 3.5948494E
                                                                                                   DATA
                                                                                                           88
                                                                                              001
                93
                       .6113725E 00.
 99
                                          3.6279456E 00.
                                                                                 3.6612469E 00, DATA
                                                             3,64457Q0E 00.
                                                                                                           89
                       ,6779772E 00,
                94
                                                             347116029E 00.
347795367E 00.
100
                                          3.6947623E 00,
                                                                                 3.7284998E 00: DATA
                                                                                                           90
                95
                                                                                 3.7966663E 00, DATA
3.8657788E 00, DATA
2.01
                                          3.7624560E 00.
                                                                                                           91
102
                96
                      3.8138552E 00,
                                          3.8311035E
                                                      00,
                                                             3484841136 00.
                                                                                                           92
                97
                                                             3.9182394E
103
                       .8832060E 00,
                                          3,90069285
                                                      00,
                                                                          00,
                                                                                 3.9358461E
                                                                                              000
                                                                                                   DATA
                                                                                                           93
104
                98
                                          3.9712403E QO.
                      3,9535130E 00,
                                                             349890280E 00,
                                                                                 4.9068763E 00.
                                                                                                   DATA
                                                                                                           94
                99
105
                      4.0247354E 00.
                                                                                 4.0788762E 00/
                                          4.04275518 00:
                                                             4 206078348 00,
                                                                                                   DATA
                                                                                                           93
                      4 (RASUN 41), [#329/360)/
4 0970274E 00, 4:1152385E
106
                  DATA
                                                                                                          96
                                                                                                   DATA
               101
                                                      00 .
                                                             4x1335093E 00,
                                                                                 4.1518393E QQ;
                                                                                                   DATA
              142
                       ,1702277E
                                  00,
108
                                                      00.
                                                             4-20717736
                                                                          00.
                                          4.1886740E
                                                                                 4.2257367E 00. DATA
                                                                                                          98
209
               103
                        24435116
                                          4.26301965
                                   00,
                                                             4-2817407E
                                                                                 4.8005127E
                                                       00.
                                                                           000
                                                                                                   DATA
                                                                                                           99
                                                                                              00.
               104
                       ,3193340E 00,
                                                                                 4.3760734E
110
                                          4:3382025E
                                                      00 6
                                                             4485711635
                                                                           00.
                                                                                              000
                                                                                                   DATA 100
               105
                                         4:4141079E
4:4905999E
                       ,39507135 00,
                                                      004
                                                             4-4331010E
4-5097987E
                                                                                 4.4522889E 00, DATA 101
111
                                                                          00.
112
                       47142926
               146
                                  00,
                                                      004
                                                                          001
                                                                                 4.5290243E 00: DATA 102
                       .5482739€
                                          4.5675454E 00.
4.6448099E 0C.
                                                                                 4.4061464E 00, DATA 103
4.4839182E 00, DATA 104
               107
                                                             4,5868370E 00.
113
                                  00.
               108
                       .6254715E 00.
114
115
               109
                        .7028837E 00.
                                          4.72225398 00.
                                                             4.7416263E 00.
                                                                                 4.7609988E 00/
                                                                                                   DATA 105
                  DATA (RASUN 41), 12361,368,7
4,78036915 00, 4,79973516 00,
116
                                                                                                   DATA 106
              111
                                                             4,81909408 00,
                                                                                 4.8384433E 00,
                                                                                                         107
                                                                                                   DATA
                      4.8577893E 00,
                                                             4.8964067E 00:
118
              112
                                         4.87710248 00:
                                                                                 4.91569035 00/
                                                                                                         108
                                                                                                   DATA
                  DAYA (BCSUN 41) 11 - 10 - 41,03901926-01,
119
                                        -4.0264303E=01, =4.0124999E-01, =3.9972333E=01,
                                                                                                   DATA 109
121
               122
                     -3,98063705-01,
                                        -3.9627186E-01, -8.9434874E-01, -3.9229829E-01,
                                                                                                   DATA
               123
122
                       ,9011262E=01,
                                        -3:87001836-01, -3:8536409E-01, -3.8280069E-01,
                                                                                                   DATA 111
                     -3
                       .8011287E-01,
                                        -3.7730200E-01, -3.7436946E-01, -3.7131660E-01, DATA 112
124
                       ,6814509E-01,
               125
                                       -3.6483629E-01, -3.6145178E-01, -3.5793318E-01,
                     -3
                                                                                                   DATA 113
                                        -3.3056027E=01; -3.4670931E=01; -3.4275099E=01; DATA 114
-3.3451935E=01; -3.8024957E=01; -3.2587941E=01; DATA 115
-3.1684498E=01; -3.1218414E=01; -3.6742999E=01; DAYA 116
125
               126
                       54302116-01,
                        3868707E-01,
126
                     -3.2141066E-01,
127
```

```
129
                     -3.0258427E-01, -2.9764878E-01, -2.9262554E-01, -2.8751656E-01/ DATA 117
128
                    ATA (BCSUN 61); I = 37, 72)/
-2.8232390E-01, -2.7704963E-01, -2.7169577E-01, -2.6626450E-01,
129
                                                                                                    DATA 118
              131
130
                                                                                                    DATA 119
                                        -2.5517794E=01, =2,4952685E-01, =2.4380664E=01,
                       .6075784E=01,
                                                                                                    DATA
131
                                                                                                          120
                       3801947E-01, -2.3216735E-01, -2.2625243E-01, -2.2027672E-01,
132
              133
                                                                                                    DATA
                                                                                                          121
                       14242296-01, =2.08151246-01; =2.02005576-01; =1.95807296=01; 89558496-01; =1.83261176-01; =1.76917298-01; =1.70528606-01;
              134
133
              135
134
                     -1
                                                                                                    DATA
                                                                                                          123
                                        -1.5762454Ec01, -1.5111274E-01, -1.4456345E-01, -1.3135943E-01, -1.2470838E-01, -1.8802721E-01, -1.0458226E-01, -9.7822397E-02, -9.1040222E-02,
                       .6409709E-01.
135
              136
                     -1
                                                                                                    DATA 124
              137
136
                        3797844E=01,
                                                                                                    DATA
                                                                                                          125
                        1131786E-01, =1:0458226E=01;
137
              138
                                                                                                    DATA 126
138
              139
                     -8.4237593E-02, -7.7416742E=02; -7.0579304E-02; -6.3727293E=02/
                                                                                                    DATA 127
                        (BCSUN (I), I* 73,108,/
6862613E-02, -4.9987168E=02,
                                                                                                         128
                  DATA
139
                                                                                                    DATA
                                                            -4,3102846E-02, -3.6211523E-02,
              141
140
                     =5
                                                                                                    DATA
              142
                     =2.9315053E-02,
                                        =2.2415290E=02, =1.5514060E=02, =6.6131897E=03,
                                                                                                    DATA 130
141
                       .7144926E=03,
                                                             1.20691156-02,
3.95342736-02,
                                                                                 1.8950653E=02,
4.6369913E=02,
              143
                                          5.1801662E=03.
                                                                                                    DATA 131
142
              144
                      2.58231136=02,
                                          3.2684825E502,
                                                                                                    DATA
143
                                                                                                          133
              145
144
                       .3190206E=02,
                                          5.9993696E=02,
                                                              6,47785615=02.
                                                                                 7.35432616=02.
                                                                                                    DATA
                                                                                                          133
                                                                                 1.8036401Ec01,
1.2672780E=01,
               146
                                                              9,36991946-02,
145
                      8
                       .0286064E-02,
                                          8.7005299E=02.
                                                                                                    DATA
                                                                                                          134
               147
                                          1:1361145Ec01.
                                                              1.20186628-01,
                                                                                                    DATA
146
                      1.0700400E=01,
                                                                                                          135
              148
                       .3323326E=01.
147
                                          1.3970130E=01,
                                                              1-4613019E-01:
                                                                                 1.52518255=01,
                                                                                                    DATA
                                                                                                          136
                                         1,6516504E=01,
              149
                      1.5886376E-01,
                                                                                                         137
148
                                                              1,71420416-01,
                                                                                                    DATA
                                                                                 1.2762817E=Q1/
                  DATA (BCSUN (1),13
1.8378666E-01,
149
                                                                                                          138
                                                                                                    DATA
150
              151
                                          1,8989412E=01;
                                                              1,9594899E-01,
                                                                                 2.01949655-01,
                                                                                                    DATA
                                                                                                          139
              152
151
                       .0789454E-01,
                                                              2-19610816-01.
                                          2.1378207E=01.
                                                                                  2.2537932E=011
                                                                                                    DATA
152
                                                                                                    DATA 141
                      2.3108616E-01,
                                          2:3672986E=01:
                                                              2#4530883E-01.
                                                                                 2.4782180E=01,
              154
                                                                                  2.6918078E=01,
                                                              2-63948076-01,
                                                                                                    E474 142
153
                      2.5326697E-01,
                                          2:5864295E=01:
              155
                      2.7433947E-01,
                                                              2 8 8 4 4 2 8 7 4 E = (1 )
154
                                          2.7942267E=01:
                                                                                  2.9955622E=01, DATA
                                                                                                         145
                      2.9420356E-01,
3.1272166E-01,
3.2991996E-01,
                                          2.98969235501,
                                                                                  3.8824977E=G1, DATA 144
               156
                                                              3203651806-01,
155
               157
                                                              3,2152153E-01,
                                                                                                    DATA 145
156
                                          3.1718604E=01,
                                                                                  3.2576661E=01,
              158
                                                             3.3794577E-01.
3.5263744E-01.
157
                                          3.3398014E=01,
                                                                                 3.4181558E=01,
                                                                                                    DATA
                                                                                                         146
158
                                                                                                    DATA 147
                      3.4558825E=01,
                                          3.49262612=01,
                                                                                  3.5631169E=01/
                  DATA (DCSUN 11), 1:
3,5968418E-01,
                                         145,180,/
3.6295391E-01,
                                                                                                    DATA 148
159
              161
                                                              3,6611977E-01,
                                                                                 3.6918066E=01,
                                                                                                         149
160
                                                                                                    DATA
161
                       .7213555E-01.
                                                                                                    DATA 150
              162
                                          3.7498337E=61.
                                                              3,77723125-01,
                                                                                 3.8033370E=01.
                        .8287423E-01,
                                          3.8528373E=01.
                                                              3.8758134E-01,
                                                                                 3.89766218=011
162
               163
                                                                                                    DATA
                                                                                                          151
               164
                                                              3,9563654E-01,
163
                        9183750E=01,
                                          3.9379452E-01.
                                                                                 3.9736290E=01,
                                                                                                    DATA
                                                                                                          152
              165
164
                      3.9897300E=01,
                                                              4.0184233E-01,
                                                                                  4.0310049E=01,
                                                                                                    DATA 153
                                          4.0046634E=01,
                                                                                  4.8694637E=011
165
               166
                       ,0424038E-01,
                                          4.0526156E-01:
                                                              4 .0616365E-01 .
                                                                                                    DATA 154
              167
                        .0760937E-01,
                                          4.0815257E=01.
                                                              4.08575758-01.
                                                                                  4.8887884E=01.
166
                                                                                                    DATA 153
              168
                                                                                  4.98890115-011
                                                                                                    DATA 156
                        .0906182E=01,
                                          4.0912466E=01.
                                                              4-09067416-01.
167
              169
                        .08592926=01,
                                                              4.0763879E-01.
                                          4.0817567EG01.
168
                                                                                  4.9698236E=01/
                                                                                                    DATA 157
                        (BCSUN (1),[$181,216)/

06206715501/ 4:03312085501/

01918285-01/ 4:0951985-01/
                  DATA
                                                                                                         158
169
                                                                                                    DATA
                       .06206715-01;
,0191828E-01;
                                                              4:0429885E-01:
3,9906908E-01:
                                                                                 4.6316742E-01:
3.9747026E-01:
              171
170
                                                                                                    DATA
                                                                                                          159
                                                                                                    DATA
              173
                                                                                  3.8993079E-01.
172
                      3
                       .9575626E-01,
.8776395E-01,
                                          3.9392779E-01.
                                                              3,9198569E-01,
                                                                                                    DATA
                                                                                                          161
              174
                                                                                  3.80600925-01.
173
                                                              3,8309813E-01,
                                          3.8548613E-01,
                                                                                                    DATA
                        .7799548E-01,
174
              175
                                          3.7328285E=01,
                                                                                  3.6954009E=01.
                                                                                                          163
                                                              3 8 3 2 4 6 4 0 3 E - 01,
                                                                                                    DATA
                       .6651210E=01,
.5338194E=01,
                                          3.6338120E=01,
3.4985035E=01,
175
               176
                                                              3.6014849E-01,
                                                                                   .96815015-01.
              177
176
                                                              3.46221415-01,
                                                                                  3.42496315-01.
                                                                                                    DATA
                                                                                                         165
177
              178
                        ,3867622E-01,
                                                              3.80756105-01.
                                                                                  3.2665856E=01,
                                          3.3476238E=01;
                                                                                                    DATA 166
                     3.2247115E-01,
TA (BCSUN (1), I
3.0485040E-01,
              179
                                          3:1819520E '01,
                                                              3.13832146-01,
178
                                                                                 3.99383386=01/
                                                                                                    DATA 167
179
                                         217,2521/
3.0023460E=01,
                                                                                                                  6
               181
                                                              2,95537815-01,
                                                                                  2.9076130E=01,
                                                                                                    DATA
                                                                                                          169
                      2.8590678E-01,
2.6573892E-01,
                                                              2,7596974E-01,
2,7522675E-01,
              182
181
                                          2.8097577E-01,
                                                                                  2.7089030E301, DATA
                                                                                                          170
               183
                                          2.6051725E=01,
2.3895743E=01,
                                                                                  2.4986893E=014
182
                                                                                                          171
               184
183
                      2,44445345-01.
                                                              2,3340672E-01,
                                                                                  2.2779465E=011
                                                                                                    DATA
                                                                                                          172
               185
                                                                                  2.6476150E=01.
184
                      2,22122676-01,
                                          2.1639218E=01.
                                                              2-1060465E-01,
                                                                                                    DATA
                                                                                                          173
185
               186
                       .98864166-01,
                                                              1,86912786-01,
                                                                                 1.8086166E=011
                                          1:9391407E=01.
                                                                                                          174
                                                                                                    DATA
               187
                        .74762275-01,
                                          1.6861608E-01.
1.4359495E-01.
186
                                                              1,02424688-01,
                                                                                                    DATA
                                                                                                          175
                                                                                  1.56189635001,
               188
                        49912535-01,
187
                                                              1.8723863E=01,
                                                                                  1.40849275=01,
                                                                                                    DATA
               189
                                                              1.3145936E-01,
                                                                                 1.84934668-01/
188
                      1.24416536-01,
                                          1.1795407E=01.
                                                                                                    DATA
                                                                                                          177
                      9:0381018E-02,
189
                                         253.288,/
9.1800406E=02.
               191
190
                                                              8,5194349E-02,
                                                                                 7.4544726=02,
                                                                                                    DATA
                                                                                                          179
191
                       ,1912399E-02,
               192
                                          6.32397556=02.
                                                              5.8548090E-02,
                                                                                  5.1838950E=02:
                                                                                                    DATA 180
               193
                       ,51138716-02,
                                                              3.16219264-02,
192
                                          3.8374355E=02.
                                                                                                    DATA 181
                                                                                  2.485$107E=02:
               194
                       .80844206-02,
.0781407E-03,
                                           .1302400E=02.
193
                                                              4-51359198-03,
                                                                                =2.2864672Ec03:
                                                                                                    DATA
                                                                                                         182
               195
                                         -1:5877897E-02:
                                                            -2,26780805-02,
-4,98493765-02,
                                                                                                    DATA 163
194
                                                                                -2.9477026E-02.
               196
                        ,6273036E-02,
195
                     e3
                                         94.3064434Ee02.
                                                                                -5.6626067E=02.
                                                                                                    DATA 184
               197
                        33927055-02,
                                         =7.01475528=02.
196
                     .6
                                                             =7.6088734E-02,
                                                                                -8.3614432E-02.
                                                                                                    DATA
                                                                                                          185
197
               198
                        ,03228156-02,
                                         -9.7011965E-02.
                                                            -1.03680136-01.
                                                                                                    DATA
                                                                                -1.1032546E-01,
                                                                                                          186
               199
                        .16946146-01.
198
                                        =1.2354027E=01;
                                                            -1.8010608E-01,
                                                                                =1.3664178E=Q1/
                                                                                                    DATA
                                                                                                          187
                     TA (BCSUN 11):1:289,324./
-1,4314559E-01, -1,4961374E-01, -1,9605046E-01, -1.6244798E-01,
199
                                                                                                    DATA
                                                                                                          188
300
                                                                                                    DATA
```

```
202
                   -1.6880652E-01, -1:7512429E-01, -1.8139949E-01, -1.8763031E-01, DATA 190
201
             203
305
                   01.9381494E=01, 01.9995152E-01, 02.0603816E=01, 02.1207296E=01,
                                                                                            DATA 191
             204
                   -2.1405401E-01, -2.2397934E-01, -2.2954695E-01, -2.8565476E-01, DATA 192
203
                   -2.4140085E-01, -2.4708320E-01, -2.5269977E-01, -2.5824856E-01, DATA 193-2.6372756E-01, -2.6913467E-01, -2.7446795E-01, -2.7972537E-01, DATA 194
             245
204
205
             206
             207
                   =2.8490489E=01,
                                     =2,90004476=01, =2x95022136=01, =2.9995598E=01,
                                                                                            DATA 195
206
                     .04804009-01, -3:09564376-01, -3:14235146-01, -3.1881451E-01,
             208
                                                                                            DATA 196
207
                     209
208
                                                                                            DAYA 197
309
                                                                                            DATA 198
210
                   e 3
                                                                                            DATA 199
                      .5361609E-01, -3.5918243E-01, -3.6263783E-01, -3.6598068E-01, DATA 200
             212
                   -3
211
212
213
             213
              214
                      8095097E=01, -3.8358598E=01, -3.8609808E-01, -3.8848594E=01,
                                                                                            DATA
                                                                                                  202
             215
214
                   -3.9074836E-01, -3.9288408E-01, -3.9489194E-01, -3.9677091E-01,
                                                                                            DATA
                                                                                                  203
              216
                   -3
                      9851993E-01, -4.0013812E-01, -4.0162456E-01, -6.0297846E-01,
                                                                                            DATA 204
             217
216
                   -4.0419911E-01, -4.0528582E-01, -4.0623804E-01, -4.8705519E-01, DATA 205
                   -4.0773682E-01, -4.0828252E-01, -4.0869192E-01, -4.8896470E-01, -4.0910066E-01, -4.0909955E-01, -4.0896129E-01, -4.0868585E-01/
217
218
              218
                                                                                            DATA 206
                                                                                            DATA 207
                 DATA (BCSUN (1), 1:361,368)/
-4.0827325E-01, =4.0772368E-01; =4.0703742E-01; =4.8621481E-01;
219
                                                                                            DATA 208
220
              221
                                                                                            DATA 20"
             222
                   -4.0525630E-01, -4.0416246E=01, -4.0293380E-01, -4.0157501E501/
221
                                                                                            DATA 210
                 DATA (RSUN (1), 1:
9.8395943E=01,
                                      1: 36,/
c.2394:83E=01
222
                                                                                            DATA 210
                                                         9,3394030E-01,
9,8397207E-01,
                                                                           9.8394019E=01,
9.8399264E=01,
553
                                                                                            DATA 211
                      .8394576E-01.
              232
224
                                       9.8395628E=01;
                                                                                            DATA 212
225
             233
                      .8401770E-01,
                                      9.8404688E=01,
                                                         9.8408014E-01,
                                                                           9.8411734E=01.
                                                                                            DATA 213
226
             234
                     .8415640E-01.
                                       9.8420320E=01.
                                                                           9.8430426E=01:
9.8455455E=01:
                                                         9.8425180E-01,
                                                                                            DATA 214
                      .8436065E-01,
              235
                                      9.8442105E=01,
227
                                                         9.8448563E-01,
                                                                                            DATA 215
                                      9.8470608E=01.
228
             236
                      .8462800E=01,
                                                                           9.8487747E=Q11
                                                         9.54789156-01,
                                                                                            DATA 216
             237
                     .8497130E-01,
                                      9.8307088E=01,
229
                                                         9,85176366-01,
                                                                           9.8528790Ec01.
9.8579401Ec01.
                                                                                            DATA 217
                      .8540562E-01.
             238
230
                                      9.8552981E=01.
                                                         9.85660028-01,
                                                                                            DATA 218
             239
                                      9.8608425E=01,
                                                                           9.8639192Ec01/
231
                     .8593753E=01,
                                                         9.86235835-01,
                                                                                            DATA 219
                 9.8655214E-01,
                                      37, 72)/
9,8671605E=01,
232
                                                                                            DATA 220
233
             241
                                                         9.8688349E-01,
                                                                           9.8705424E=01.
                                                                                            DATA 221
                    9.8722810E-01.
              242
                                      9.8740484E-01.
234
                                                         9,8758440E-01,
                                                                           9.8776670E=01.
                                                                                            DATA 222
                    9,87951686=01,
235
             243
                                      9.8813932E=01,
                                                         9.8832959E-01,
                                                                           9.8852283E=01, DATA 223
             244
                      ,8871884E-01,
                                      9.8891778E-01.
236
                                                         9.8911991E=01,
                                                                           9.8932544E=01: DATA 224
                      .8953459E=01.
              245
                                                         9,8996452E-01,
237
                                      9.8974752E-01.
                                                                           9.9018579E=01, DATA 225
238
             246
                     .9041151E-01,
                                                         9.9087708E-01,
                                      9,9064205E=01,
                                                                           9.9111643E=01, DATA 226
                    9,91359945-01,
239
              247
                                                                           9.92112725-01. DATA 227
                                      9.91607436=01.
                                                         9-91858486-01,
             248
                      9236973E-01,
240
                                      9:9262903E=01.
                                                         9.92590405-01,
                                                                           9.93153558=01.
                                                                                            DATA 228
             249
                                        .9368398E-01.
                                                         9.9395073E-01,
241
                     .9341818E=01.
                                                                                            DATA 229
                                                                           9.94218415-01/
                   7A (RSUN (1):1:
9,9448672E=01,
                                      73,108,/
9,9475556E=01,
342
                                                                                            DATA 230
243
                                                         9x9502490E-01,
                                                                           9.9529472E=01, DATA 231
                     .9556502E-01.
244
             252
                                      9,9583575E=011
                                                         9.9610715E-01,
                                                                           9.9637936E=01, DATA 232
                    9.9665255E-01,
                                                         9.97202516-01,
                                                                           9.97479876-011
245
             253
                                      9.9692682E-01,
                                                                                            DATA 233
              254
                      97759126-01,
246
                                       9.9804062E=01,
                                                         9-98324235-01,
                                                                           9.9860992Ea01, DATA 234
247
             255
                      .9889760E=01.
                                      9,99187322-01,
                                                         9,99478645-01.
                                                                           9.9977122E=01, DATA
                                                                                                  235
             256
                                      1:0003386E 00.
248
                    1.00006476 00,
                                                         1x0006526E 00.
                                                                           1.8009465E 00, DATA 236
249
              257
                     .0012399E 00.
                                      1:00153256 00.
                                                         1.0018239E 00.
                                                                           1.8021140E 00. DATA 237
250
              258
                     .0024025E 00,
                                      1,0026897E 00,
                                                         1:00297415 00,
                                                                           1.0032569E 00;
                                                                                            DATA 238
251
                    1.0035377E 00.
                                       1.0038162E 00.
                                                         1x0040927E 00,
                                                                           1.8043473E 00/ DATA 239
252
253
                    1.0046401E 00,
                                                                                                  240
                                                                                                         6
             261
                                      1.0049112E 00.
                                                                           1.8054495E 00.
                                                         1 x 00518 y9E 1,0,
                                                                                            DATA
                    1.0057172E 00.
254
                                      1:0059845E 00.
                                                         1,00525125 00,
             262
                                                                           1.8065176E 00. DATA 242
255
              263
                    1.00678366 00,
                                      1.0070474E 00;
                                                         1,00731488 00,
                                                                           1.8075794E 00. DATA 243
                    1.00784296 00.
1.0088805E 00.
                                      1:0081051E 00.
1:0091341E 00.
                                                         1.0083656E 00.
1.0093847E 00.
              264
256
                                                                           1.00862425
                                                                                       00. DATA 244
              265
257
                                                                           1.6096322E 00: DATA 245
258
             266
                    1.0098761E 00,
                                       1.0101164E
                                                         1.0103527E 00.
                                                   00.
                                                                           1.0105848E 00, DATA 246
259
              267
                    1.01081286 00,
                                                         1,01125546 00.
                                      1.0110363E 00.
                                                                           1.0144704E
                                                                                       00.
                                                                                            DATA
                                                                                                  247
                    1.0116811E 00.
                                       1:01188785 00.
360
              268
                                                         1.01209078 00.
                                                                           1.0124901E
                                                                                            DATA 248
                                                                                       00.
              269
                                                         1.0128703E 00.
                                                                           1.0130584E
261
                    1.0124863E 00,
                                      1.0126796E 00.
                                                                                       00/
                                                                                            DATA 249
                 1.0132442E 00,
262
263
                                     1,01342796
                                                                                                  250
              271
                                                   00.
                                                         1,0136093E 00,
                                                                                       00.
                                                                           1.0137883E
                                                                                            DATA
             272
264
                    1.0139647E 00.
                                                         1.01430926 00.
                                      1.0141385E 00.
                                                                           1.8144767E 00. DATA 232
                    1.01464C7E 00,
1.0152535E 00,
265
              273
                                                                           1.0151085E
1.0156661E
                                                         1 x 0149569E 00,
                                       1,0148008E
                                                  00.
                                                                                       000
                                                                                            DATA
                                                                                                  253
             273
                                      1:0153975E 00.
                                                         1+0155346E 00,
                                                                                            DATA
266
                                                                                                  254
                                                                                       000
             275
                    1,0157921E 00.
                                                                           1.0161350E 00, DAYA 255
1.0163134E 00, DAYA 256
267
                                      1:0159121E 00:
                                                         140180265E 00.
268
             276
                     :0162379E 00,
                                      1:0163350E 00.
                                                         1,01642672
                                                                     00.
269
              277
                    1.0165953E 00.
                                       1:0166728E 00.
                                                         1.0167461E 00.
                                                                           1.9168155E QO. DATA 257
              278
                                       1:0169438E 00.
                                                         1,01700285 00.
270
                      .0168813E 00,
                                                                           1.0170585E 00. DATA 258
             279
                    1.0171108E 00.
271
                                      1.0171598E 00,
                                                         1.01720516 00.
                                                                           1.8172467E 00/
                                                                                            DATA 259
                 1.0172844E 00, 1.0173179E 00,
272
                                                                                            DAYA 260
273
              281
                                                         1,0173470E 00,
                                                                           1.0173716E 00. DATA 261
              282
                    1.0173912E 00.
274
                                      1.0174058E 00.
                                                         1.0174150E 00.
                                                                           1.0174185E QQ, DATA 262
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275
              283
                                       1.0174078E 00.
                                                          1.0173932E 00.
                     1.0174162E 00,
                                                                             1.0173723E CO. DATA 263
                     1.0173453E 00,
              284
                                                          1,0172724E 00.
276
                                        1.0173118E 00.
                                                                             1.8172274E 00. DATA 264
277
              285
286
                     1.0171770E UO.
1.0169284E 00.
                                       1:0171216E
1:0168563E
                                                          1x0170615E
                                                                             1.0169970E 00, DATA 265
                                                    100
                                                          1.0167805E
                                                                       00.
                                                                              1.01670126 00,
                                                    00.
                                                                                               DATA 266
                     1.01661868 00.
279
              287
                                        1.0165328E
                                                    000
                                                          1.0164436E
                                                                       00.
                                                                             1.8163511E 00: DATA 267
              288
                     1,01625515 00,
                                                          1.0160523E
280
                                        1.0161556E
                                                                              1.01394528
                                                                                               DATA 268
                                                    00.
                                                                       00.
                                                                                          00.
              289
                                                          1.0155935E
                                                                              1.0154737E
281
                     1.0158339E 00,
                                        1:015718 E 00.
                                                                       00.
                                                                                               DATA 269
                                                                                          00/
                 DATA (RSUN (1), 1:217,252)/
282
                                                                                               DATA 270
                                                          1:0150685E
1:0144505E
1:0137495E
              291
                     1,0153439E 00,
                                                                             1.0149225E QQ;
1.0142823E QQ;
1.0135636E QQ;
283
                                       1.0152089E Q0.
                                                                       00,
                                                                                               DATA 271
              292
                     1.0147709 00,
1.0141092 00,
                                        1.0146134E
1.0139315E
                                                    00,
                                                                       00,
                                                                                               CATA 272
284
              293
285
                                                                       00.
                                                                                          00.
                                                                                               DATA 273
                                                    00.
              294
                     1.0133741E 00,
286
                                        1.0131817E
                                                    00,
                                                          1.0129863E 00,
                                                                              1.0127883E 00,
                                                                                               DAYA 274
              295
                     1.0125878E 00.
                                        1:0123850E 00,
                                                                              1.0119729E 00.
287
                                                          1.0121800E 00.
                                                                                               DAYA 273
              296
                                                          1.0113386E 00.
288
                     1.0117635E 00.
                                        1.0115522E 00.
                                                                              1.9111227E 00.
                                                                                               DATA 275
              297
                     1.0109045E 00,
289
                                        1:0106838E 00;
                                                           1.0104603E 00,
                                                                              1.04.33395 001
                                                                                               DA7A 277
                                                          1 80 2953 1 76 00.
              298
                     1,0100043E 00,
                                       1:0097714F 00:
                                                                              1.00:2946E 00,
290
                                                                                               DATA 278
              299
291
                     1.00005045 00,
                                        1:0023616E 00.
                                                          1 v 0 0 85493£ 00.
                                                                              1.0082930E 00/
                                                                                               DATA 279
300
                 DATA (RSUN 11), 1:253, 288)/
                                                                                               DATA 280
                                       1:0077699E 00.
                     1.0080332E 00,
693
              301
                                                          1.0075037E 00.
                                                                             1.0072349E 00,
                                                                                              DATA 281
                     1.0069640E 00,
294
              302
                                                          1.0064173E 00.
                                        1.0066914E 00.
                                                                             1.8061421E 00, DATA 282
295
              303
                      .0058660E 00,
                                                           1,0093123E 00,
                                        1.0055894E 00.
                                                                              1.8050350E 00, DATA 283
                     1,0047575E 00.
296
              304
                                        1.0044800E 00.
                                                           1 00 420 25E 00.
                                                                              1.8039250E 00. DATA 284
297
              305
                     1.0036474E 00,
                                        1:0033697E 00,
                                                                              1.0028135E QO: DATA 285
                                                           1 4 0 0 3 0 9 1 9 E 00 .
                     1,0025347E 00,
                                                          1,0019745E
298
              306
                                                                       00,
                                        1.0022551E 00,
                                                                              1.90159265 00, DATA 286
                                                          1+0008373E 00.
9+9967497E=01.
              307
                     1.0014093E 00.
299
                                                                              1.0005489E 00. DATA 287
                                        1.0011241E 00.
              308
                      .0002589E 00,
                                        9.9996747E=01,
                                                                              9.9938180E=01, DATA 288
300
                                     9.9879504E=01,
=289,324,/
9.9762971E=01,
              349
                     9.9908832E-01,
                                                          9,9850219E-01,
301
                                                                              9.9821013E=01/
                                                                                               DATA 289
                 DATA (RSUN (1), 1
9.9791919E-01,
302
                                                                                               DATA 290
303
              311
                                                                             9.9705607E=01,
                                                                                              DATA 291
                                                          9,9734193E-01,
                     9.9677233E-01,
304
              312
                                        9,9649089E=01,
                                                          9.9621186E-01,
                                                                              9.9593533E=Q1, DATA 292
                      .9566132E-01,
305
              313
                                        9.9538993E=01,
                                                           9,9512100E-01,
                                                                              9.9485442E=01, DATA 293
                      .9459003E-01,
                                                           9,9406738E-01.
              314
                                        9,9432781E=01,
306
                                                                              9.9380847E=01.
                                                                                              DATA 294
                                        9:9329422E=01:
9:9227645E=01:
307
              315
                      .9355087E-01,
                                                           9.9303854E-01.
                                                                             9.9278373E=01e
9.9177331E=01.
                                                                                               DATA 295
                      .9252977E=01.
308
              316
                                                           9,92024215-01,
                                                                                               DATA 296
309
                      .9152406E=01,
                                                           9,9103189E-01,
              317
                                        9,9127682E=01:
                                                                              9.9078956E=01: DATA 297
                      ,9055022E=01,
$10
              318
                                        9.9031424E=01:
                                                          9,90081836-01,
                                                                             9.8985331E=01: DATA 298
                      .8962890E=01,
                                         .8940884E-01,
              319
                                        9
                                                          9.8919331E-01,
311
                                                                              9.8898242E=01/ DATA 299
                 DATA (RSUN (1),1:325,360)/
9:8977634E=01, 9:8857520E=01,
9:8800039E=01, 9:8781809E=01,
312
                                                                                               DATA 300
513
              321
                                                                              9.8818731E=01.
                                                          9.5837887E-01,
                                                                                               DATA 301
                                       9.8781809E-01.
              322
                      .8800039E=01,
                                                           9,87640066-01,
                                                                              9.8746601E=01.
                                                                                               DATA 302
314
815
                      .8729569E-01,
                                       9:8712878E-01.
              323
                                                           9.8696511E-01,
                                                                             9.8680451E=01, DATA 303
              324
$16
                      ,8464679E-01,
                                       7.8649166E=01.
                                                          9.8633939E-01,
                                                                             9.8619011Ea01, DATA 304
                      .8604400E=01,
                                                                              9.8562670E=01. DATA 305
              325
                                        9.8590119E=01,
317
                                                          9.8576200E=01,
                      .8349555E-01,
518
              326
                                        9.8536892E=01.
                                                           9.8524703E-01,
                                                                              9.8513015E=01, DATA 306
              327
119
                                                                              9.8471767E=Q11
                      .8501855E-01,
                                        9.8491245E=01,
                                                           9.8481209E-01,
                                                                                               DATA 307
              328
                      .8462936E-01,
                                         .8454737E=01:
                                                           9,8447163E-01,
                                                                              9.8440211E=01.
                                                                                               DATA 308
980
                      .8433875E=01,
                                        9.8428159E=01.
                                                                                               DATA 309
821
                                                           9.5423024E-01.
                                                                              9.8418439E=01/
                    TA (RSUN (1), 1=361,368,7
9.8414378E=01, 9.8410806E=01,
123
                                                                                               DATA 310
DATA 311
              331
                                                          9.8407698E-Q1,
                                                                              9.8405027E301,
324
              332
                      .8402764E=01.
                                        9.8400871E=01.
                                                          9.8399358E-01.
                                                                             9.8398223E=01/ DATA 312
                 "ATA (NAMOON(1), I = 2, 918297E 00,
325
326
                                       2,4445326E 00,
                                                                                               DATA 312
              341
                                                           2.6870799E 00.
                                                                              2.9217360E 00,
                                                                                               DATA 313
327
              342
                     3.1517784E 00.
                                        3,3803766E 00,
                                                           3,6108988# 00,
                                                                              3.8443659E 00.
                                                                                               DATA 314
              343
                      ,0810732E 00.
$58
                                        4.3194596E QO.
                                                           4,55669758 00,
                                                                              4.7894926E 00, DATA 315
                      ,0150548E 00,
              344
329
                                        5.2318078E 00.
                                                           5,4396229E 00,
                                                                              5.6396562E 00, DATA 316
$30
              345
                      8340186E 00,
                                        6.0254591E 00,
                                                           6.2171355E 00,
                                                                              1.2927515E=01, DATA 317
                      .3176544E-01,
                                                                              1.6123000E 00.
2.0727287E 00.
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                                                           7.7115741E-01,
831
                                        5.4479829E=01.
                                                                                               DATA 318
              347
                      ,2674763E 00.
                                                           1,8037049€ 0.,
325
                                        1.5331922E 00:
                                                                                               DATA 319
              348
                     2.335481 5 00,
333
                                        2.5898478E 00.
                                                           2.8362585E 00,
                                                                              3.8767903E QO: DATA 320
              349
                                        3.5507297E 00,
37, 72,/
4.5020924E 00,
                                                           3.78815768 00,
                                                                              4.0267307E 00/
334
                     3.31413248 00,
                                                                                               DATA 321
335
                 DATA (RAMOONSI) 1 =
                                                                                               DATA 322
              351
                      .2654103E 00.
336
                                                           4-7342369E 00.
                                                                              4.9596205E 00, DATA 323
                                        5.3859407F 00.
6.16781161 00.
                                                                             5.7835017E 00, DATA 324
2.7754723E=01, DATA 325
337
              352
                      .1769178E 00,
                                                           5,58756605 00,
338
              353
                      .9760318E 0C.
                                                           7,85345216-02,
                      .8453887E-01,
              354
                                        7.0204204E=01.
                                                          9-3174068E-01,
339
                                                                             1.1739114E 00:
                                                                                               DATA 326
                     1,4269331E 00,
2,4693960E 00,
                                        1.6873007E 00.
2.7217331E 00.
              355
340
                                                                              2.2120467E 00.
                                                          1 9504322E 00,
                                                                                               DATA 327
141
                      ,4693960E 00,
              356
                                                           2,96997198 00,
                                                                              3.2150989E 00, DATA 328
                      ,4413046E 00.
              357
                                                          3,9535986E 00:
342
                                        3.7072501E 00.
                                                                              4.1989294E 00, DATA 329
                                        4.6769530E 00.
343
                      .4409008E 00,
              358
                                                           4.9050589E 00.
                                                                              5.1242196E 00, DATA 330
              359
                                                                              5.9276735E 00/
                                                                                               DATA 331
844
                      .3345870E 00,
                                         5373040E 00.
                                                           5.7342291E 00.
                      ;1202012E 00,
345
                                        7311081/
3,1300416E=02,
                                                                                               DATA
              361
                                                                                                     333
                                                          2,29995996-01,
                                                                              4.45574108201,
                                                                                               DATA
347
              362
                      .5008903E-01,
                                        5.7481192E=01.
                                                          1,10985615 00,
                                                                             1.3538928E GO: DATA 334
              363
348
                     1.6042472E 00.
                                       1.8375122E 00.
                                                          2-11052278 00.
                                                                             2.3612900E 00. DAYA 335
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9	364	2,60921566		553334E		1013433E		3490500E		
0	365	3,59953438				10605456		\$569736E		337
1	366	4,60169088				0623850			APAG .CC	
2	367	5,40236185						0677059E		339
3	368	6.26196265		737276E=		2854365		9722742Ea	11 DAYA	340
4	369	8.21590298		557445E	001 700	29797935	001 7.	5452847E		341
5	371	1,7940956E			40. 2 .	3521828	00. 3.	82=6994E	PAT.	
7	372								Ca va A	343
	373	2,76406865				24411135			DATA	344
8	374	4 72394976				25338536				345
0	375	5,61975796				085546		2019247E	DA DA TA	
1	376	1.15797076	-01. 3.4	957457E=		2595368	001 7	5643427E	DATA	348
2	377	9,9130160E		354488E				7369322E		349
3	378	1.98584246	00, 2,2	296583E		678612E			DATA	350
4	379			671778E		0462556			O/ DATA	
5		TA CRAMOONS					***	* 1000.0-	DATA	
6	381	3.89778436	00, 4,1	317771E	00, 4.	1061416E	00. 4.	6560082E	DATA	353
7	382	4.8970640E		267321E		4453526		5517686E		
8	383	5,75090965		4509235		377565E		9248079Ec		
9	384	2.49393105		815979Ea		7801922Ê.		1019034E		
0	385	1,15400505						9187935E		357
1	386	2.16925766				4960508			DATA	358
2	387	3.1127596€				88186208			DATA	
3	388	4.07151196	00. 4.3	2156688	00. 44	702790E				360
4	389	5.0470695E	00, 5.2	699838E	00: 5x	4821539E		6851954E		
5	DA	TA (RAMOONS	1) . [ 3181 .	2161/			na na sa		DATA	No. of Contract of
6	391	5.8816804E	00, 6.0		00, 6.	2676896€		8086864E=		363
77	\$92	3,84008335	-01, 5,9	69535866	01: 6.	2193475E	·01: 1.	6597461E	DATA	364
7.6	393	1,30911425	00. 1.5	6651496	00. 1.	3268812E	00. 2.		DATA	365
9	394	2.33767026				3227611E	00, 3.	35842706	O. DATA	366
0	395	3.29308798		293663E		6901196			DATA	367
1	396	4.25805386	00, 4,3			444560E			DATA	365
2	397	5,2030236E				236623E			DATA	369
3	398	6.0166606E		1978508		2021080E		1894033E=		370
14	399	5.25273468		1756925	ATI A	0046455	.011 1.	2103439E		
15	401	1.4609972E		183703E	00, 1,	750817E	00, 2.	2359587E	DATA	372 373
17	402	2.48941085			00, 2,	822294E			DATA	374
8	403	3.4669852E			00, 3,	5658378			O. DATA	373
9	404	4.44794526		884381E		218799E			DATA	376
0	405	5.3620386E				6903968			DATA	377
ì	406	6.15744156		810534E .		4929906		67003295		378
2	407	6.77506515		770930E		283047E	00. 1.	\$686736E		
3	448	1,61680286		696636E		240363E			DATA	380
4	409	2.6387695E	00, 2.8	782727E	00. 3.	271729E	00, 3.		O/ DATA	
5		TA (BAHOONS	1) 11 253,	2881/					DATA	
16	411	3.62849256	00, 3,8		00, 4,	349616E	00, 4.	3856207E	DATA	
7	412	4.6305670E	00. 4.8	671858E	00, 500	939944E			DATA	
8	413	5,51871725	00, 5.7	194355E	00 , 5x5	1527655	00, 6.	1087496E		
9	414	1,92325098	=02, 2.1	558629Ec	Q1, 4m	1691134E	-01, 6.	2511779E=		386
0	415	8,4151425E	=01, 1.0	6655608	00, 1,	35099665	00. 1.	5392314E		387
1	416	1.78300505	00' 5'0	3866985	00. 24	745434E	00, 2.		DATA	288
2	417	2.7456641E	00, 3.0	128545E	00, 3.	2632434E	00, 3.	5179733E	DATA	389
3	418	3,78691435	00, 4.0	381730E	00. 4.	29822525	00. 6.	\$527999E	DO DATA	390
14	419	4.7981465E	00: 5:0	320.55E	00, 5,	2540458E	00, 5.	4653019E		
5	10.01	TA SEAMOONS	11118588	3241/					DATA	
) 6	421	5,66794486	00, 5.8	646542E		5593106E		2517837E		393
7	422	1.64601598	-01, 3,6	554834E=	014 50	3362806		9923335		394
8	423	1.0.335726	00, 1,2	447833E	000 10	4815316E			O. DATA	395
9	424	1,9609565E	00, 2.1	96869E		369525E		67373905	DATA	
.0	425	2,91201255	00, 3,1			1024809E	4 12 12 12 12 12 12 12 12 12 12 12 12 12	6579595E		
1	426	3,9198167E	00, 4,1			482333E				398
.2	427	4.94929396	00, 5:1			997505E	00, 5.	6075584E	DATA	399
.3	428	5,80724286	00, 6.0	020465E				0097414E		
4	429	3.06401665	01, 5,1	282737E.	01: 7%	27928158	·01, 9.	5225888E		
5	17.0/	1,1849607E	1341:253	1601/	AA		^^ 1		DATA	402
	431	2,10470078	00	7005045		654247		9065848E		
	432	2.14515396	00, 2,3	799506E	906 540	117915#		8426900E	DA DA VA	404
.7		2	^^ -					04 - 0		
,7 ,8	433	3,07544456		130553E	00: 3.	95782948			DATA	405
.7		3,0754445E 4,0708323E 5.0902387E	00. 4.8	130553E	00, 40	9578294E 9951972E 9345217E	00. 4.	84856425	DO: DATA	406

```
422
423
              437
                                        6.5474475E-01:
                                                           8.7614692E=01,
                     4,4333202E-01,
                                                                              1.2076629E QO, DATA 409
              438
                      .3477123E 00,
                                        1.5931450E QO.
                                                           1,83999748 00.
                                                                              7.83465345 QD. DAVA 410
                                        2:2602027E or.
424
                      .3248630E 00,
                                                           2.79191976 00.
                                                                              3.0224116E 00/ DATA 411
                      . (RAMOONSI: . I :
                                        5.4914295E 00.
425
                                                                                               DATA 412
              445
                       2246405E 00,
426
                                                           3.3347665E 00.
                                                                              3.9850620E 00, DATA 413
                                        4,6976382E
                      .2406086E 00,
                                                           4475123878 00.
927
                                                    00.
                                                                              4.9968311E 00/
                                                                                               DATA 414
428
                 DATA (BCMOON(1), 1
2:63041986-01,
                                        1,8219086E=01,
                                                                                                DATA 414
              451
                                                           9,1301940E=02, =3.2379848E=03,
                                                                                               DATA 415
                      .5717298E-02.
              452
                                                          -2.3571931E-01,
430
                                       -1.8125230E-01,
                                                                            -3.1567498E=01, DATA 416
                      .58,96568-01,
              453
                                       -3.8206750E-01,
                                                          -3.8601583E-01,
                                                                            =3.7084153E=01,
                                                                                               DATA 417
631
              454
                      ,3430935E-01,
432
                                       -2.9101695E=01.
                                                          -2x$197205E-01,
                                                                            =1.64228125=01, DATA 418
              455
                                       -1.3918313Ec02,
2.7483249Ec01,
433
                      .0664036E-02,
                                                           6.3550130E-02,
                                                                              1.89309318=01,
                                                                                               DATA 419
              456
                      .1074598E-01,
434
                                         .7483249E=05.
                                                                              3.65938296-01:
                                                           3.27956346-01:
                                                                                               DATA 420
435
                                        3.79560366=01,
                                                           3.4954349E-01,
                                                                              2.9519518E=Q1, DATA 421
                      ,2033722E-01,
              458
                                                           3443935926-02,
                                                                            -6.2557959E-02, DATA 422
436
                                        1.3103383E=01,
                      .53616356-01,
437
                                       -2.3371885E=01;
                                                          -2.9899250E-01,
                                                                            =3.4671055Ec01/ DATA 423
                      (BCMOON(1), 1:
7926556E=01,
                                       37, 721/
=3.8417864E-01;
438
439
                                                                                               DATA 424
                                                                                                            6
                                                         -3,7406613E-01,
              461
                                                                            -3.4650160E-01,
                                                                                               DATA 425
              462
                    -3.0376827E-01,
440
                                       -2.4856665E-Q1.
                                                                                               DATA 426
              463
                                                           1.16223506-01,
                                                                              1.88161755-01,
441
                                        4.0425882E=02.
                                                                                               DATA 427
                      .53401436-01,
.80587156-01,
442
              464
                                        3.0879689E-01.
                                                           3.9086580E-01,
                                                                              3.7593840E001, DATA 428
443
              465
                                                           3,20492216-01,
                                                                              2.5667987E-01.
                                        3.62340162=01,
                    1,74946856-01,
                                                                                               DATA 429
                                                                            =1.1352139E=01:
=3.6447056E=01;
              466
                                                         -1.7295265E=02.
444
                                        8:1266558E=02.
                                                                                               DATA 430
445
              467
                                                          -3.2926098E-01,
                      .0086526E-01,
                                       =2.7402661E=01,
                                                                                               DATA 431
                                                         =3,5096880E-01, =3.1235965E=01,
446
              468
                    -3,7912335E-01,
                                       =3.7402401E=01,
                                                                                               DATA 432
              369
447
                                       -1.9922545E-01,
                                                         -1.3009875E-01, -5.6104096E-02/
                                                                                               DATA 433
                   ATA (BCMOQN(1), 1= 73,108)/
2,01602456-02, 9,60440346-02,
448
                                                                                               DATA 434
449
                      .0160245E-02.
                                                           1.68775256-01.
                                                                              2.3540400E=01.
                                                                                               DATA 435
                      .9278124E-01,
                                                           3,4660816E=01,
2,8035914E-01,
              472
450
                                        3.37608852=014
                                                                              3.76842876=011
                                                                                               DATA 436
                                        3.3375221E=01,
2.7954499E=02;
451
              473
                                                                              2.08552025-01,
                                                                                               DATA 437
                     1.2255136E-01.
2.4128769E-01.
652
              474
                                                                            -1.6060734E-01,
                                                          -6,8713497E-02,
                                                                                               DATA 438
              475
453
                                       -3.05457918-01,
                                                          6344955712E-01,
                                                                                               DATA 439
454
              476
                    -3,7335106E-01,
                                       -8.5532309E=01,
                                                          -3,20698478-01,
                                                                            -2.7248868E=01/
                                                                                               DATA 440
                    ·2,1362578E-01,
455
              477
                                                          -7.4590022E-02.
2.1825837E-01.
                                       -1.46821295-01.
                                                                              6.3594558E=04, DATA 441
              478
                                         .4989627E=01,
456
                      .6362023E-02,
                                                                              2.78167136501, DATA 442
              479
457
                                         .5878320E=01.
                       26146395-01.
                                                           3.73137066-01,
                                                                              3.6721947E=01/ DATA 443
                 DATA (BCMOON(1), 1+109,144)/
3,40390008-01, 2,93522246-01,
458
                                                                                               DATA 444
                                                           2,88916155-01,
                                                                              1.5007086E=01,
                                                                                               DATA 445
460
              482
                                                                            -2.0777179E=011
                                       -3.1669226E0024
                                                          =1#2345114E-01,
                                                                                               DATA 446
              483
                      .7879285E-02.
                                                          -3, 63366838-01,
                                                                            -3.7291971E=011
661
                                       =3.3168658E=01.
                                                                                               DATA 447
              484
                      ,6150484E-01.
662
                                       03.3176056Ec01.
                                                          -2.8701703E-01.
                                                                            =2.2064872E=01. DATA 448
                      ,6972331E-01,
              485
                                                                              5.4737581E-02,
463
                                       =9.4926761E=02.
                                                          -2-066663E-02,
                                                                                               DATA 449
                      , 2884133E-01,
              486
                                                           2,01688465-01,
464
                                        1.9888673Ec01.
                                                                              3.1366046Ee01,
                                                                                               DATA 450
              487
                      .5105641E=01,
                                                           3,69419056-01,
465
                                        3.70456778-01;
                                                                              3.4705769E-01.
                                                                                               DATA 451
              488
                                       2.4361825E=01:
-9.5822897E=02;
467
                      .0428464E=01,
.8981192E=03,
                                                           1.48725636-01.
                                                                              8.39659175-021
                                                                                               DATA 452
                                                          -1.80558018-01.
                                                                            =2.5482462E=01/
                      (BCMOON(1).1
1371765E-01,
                                     =149,180,/
=3,9333658E=01,
469
                                                                                               DATA 454
                                                         =2,7146301E-01,
=2,7116829E-01,
3,0075047E-02,
2,9725714E-01,
                    03
                                                                            -3.6795435E-Q1,
                                                                                               DATA 455
              492
                      .4459633E-01,
                                                                            -1.8817901E-01,
1.8451774E-01,
470
                                       -3.0447066E-01.
                                                                                               DATA 456
471
              493
                    -1.18589896-01,
                                       =4.5053453E=02.
                                                                                               DATA 457
472
              494
                      .7583090E-01,
                                        2.4115838E-01,
                                                                              3.4026133E=01,
                                                                                               DATA 458
                      .6634118E-01.
              495
                                                           3,3611928E-01,
                                        3.72236026=01,
                                                                              3.1821203E=01,
                                                                                               DATA 459
                      .60841974-01.
474
              496
                                        1.87951486-01.
                                                           1-04377286-01,
                                                                              1.5244143E302, DATA 460
                      43498626-02,
                                                          -2.8544027E-01.
475
              497
                                       -1.5948878E-01;
                                                                            -2.9780006E=01,
                                                                                               DATA 461
                    -3.4280151E-01,
-3.2114970E-01,
                                                                            -3.5544581E-01/
476
                                       -3.5780274E-01.
                                                          -3x7176484E-01,
                                                                                               DATA 462
477
              499
                                       -2.7213594E-01.
                                                         =2.1196877E=01, =1.4464240E=01/
                                                                                               DATA 463
                 DATA (BCMCON(1), 1+181,216)/
=7.1361305E=02, 3.4636110E=03;
478
              501
                                                           7.80799366-02,
                                                                              1.5010572E-01.
                      .17297396-01,
              502
                                                                              3.5759402E-010
480
                                        2:7654360E=01.
                                                           3424559655-01,
                                                                                               DATA 466
                      .7194436E-01,
                                        3.6473511E=01.
1.3096846E=01.
482
              503
                                                           3-8481308E-01,
4-0906578E-02,
                                                                              2.0333379Ea011
                                                                                               DATA
                      ,13708706-01,
              504
                                                                            -5.8638686Ea02,
                                                                                               DATA 468
              505
483
                      ,38213505-01,
                                       -2.1693376E=01
                                                          -2.8256642E-01,
                                                                            =3.3164842E=01.
                                                                                               DATA 469
              506
507
                                       93,7157210EG01.
                                                          -3.8149587E-01.
                                                                            -5.8313803E-01:
484
                    -3,6171306E-01,
                                                                                               DATA 470
                    -2,8918834E-01,
485
                                       -2:3288769E-01,
                                                          -1.4758422E-01.
                                                                            -9.6441075E-021
                                                                                               DATA 471
486
              508
                    -2,2315796E-02,
                                        5,22210765-024
                                                           1.24773975-01.
                                                                              1.9295708Ea01:
                                                                                               DATA 472
                                     3.03664395c01,
*217.252./
3.43597435c01,
487
                      .54213246-01,
                                                           3-44070406-01,
                                                                              3.65957075-01/
                                                                                               DATA 473
                      ,6822608E-01,
488
              511
689
                                                           3,06667808-01,
                                                                              2.4427792E=01,
                      ,68469276-01,
              512
                                        7.5911966Ec02.
                                                          -1x79279456-02,
490
                                                                            =1.8959044E=01;
                                                                                               DATA 476
491
              513
                    -1.9321858E-01,
                                                          -8.1797448E-01.
                                       -2.6392126E=01.
                                                                                               DATA 477
                                                                            =3.5294884E=01,
492
                    c3.6779228E-01,
                                       @$ 6282016E-01;
                                                          -3,8955019E-01,
                                                                            -3.0038833E=01,
                      .4825281E-01,
                                       -1.8624104E=01.
493
                                                          -1-1740136E-01
                                                                            =4.4618239E=02, DATA
              516
517
494
                       ,9410835E-02,
                                        1:0213458E=01e
3.2917422E=01.
                                                           1.71066496-01.
                                                                              2.8368331E001, DATA 480
495
                     2.87330176-01,
                                                           3.56265174-01,
                                                                              3.6576430E=01, DATA 481
```

```
518
519
496
                       3,59367896-01,
                                           J. 23363585e01.
                                                               2=$1660065-01, 2.81101705-01, DATA 482
                                        2:3516033E=02, 07.8972201E-02, =1.60161495001/
*253,288,/
=2.9913173E=01, =3.4079793E=01, =3.6149460E=01,
497
                                                                                                      DATA 483
478
                         (BCMOON & I) & I
                                                                                                      DATA 484
                                                                                                                    6
                        3785110E-01.
                                                                                                      DATA 485
699
                                          -3.4278274g=01, -3.0765314g=01, -2.5915166g=01, -1.3397288E=01, -6.2944958E-02, 1.0166978E=02,
500
               522
                        .6158549g-01,
                                                                                                       DATA 486
               523
                      -2.00291106-01,
                                                                                                       DATA 487
901
                                                               2-16283415-01.
               524
                        27978105-02,
                                           1,523"8255601,
                                                                                    2.7180885E=01/
902
                                                                                                      DATA 488
                        16193776-01,
33108645-01,
4852346E-02,
               525
                                                               3,60889766-01.
                                           3,4671738E=01i
                                                                                    3.5673290E=01.
503
                                                                                                      DATA 489
                                         2.9002031E-01.
-2.8074987E-02.
                                                              2-2682649E-01; 1.5234606E=01;
1.1991342E-01; 2.8383145E=01;
2315321133E=01; 2.6009926E=01;
                                                               2.26826496-01:
904
905
                                                                                                      DATA 490
                     -2,7354837E-01,
906
               528
                                         -3,24239342=01,
                                                                                                      DATA 492
               529
                                         -3:1530855£=01,
907
                     -3:4651109E-01.
                                                              -2,6985247E-01, -2.1346965E-01/
                        (9CMOON(1);1+289,324,/
4918211E-01, -7.9719870E-02,
508
                                                                                                      DATA 494
               531
                                                              =7.5778954E=03.
                                                                                   6.4823295E502,
                                                                                                      DATA 495
510
               532
                        .3500911E-01,
                                           2.0035870E=01
                                                               2.5807779E-01.
                                                                                    3.6525969E=01,
                                                                                                      DATA 496
                                                                                   3.3835933E=01,
9.6573868E=02,
               533
                        3905252E-01,
                                           3,5692820E=01,
                                                               3-9700862E-01,
511
                                                                                                      DATA 497
                       3,0115973E-01.
                                           2.4672208E=01,
712
                                                               1.77412238-01,
               534
                                                                                                      DATA 498
               535
                        49928745-03,
513
                                         -6.1594591E-02.
                                                              -644771694E-01, -2.4353601E-01.
                                                                                                      DATA 499
                                                              -3,5845126E-01,
-2,3051243E-01,
                     -3,0316658E-01, -3,4217877E-01,
                                                                                  -3.3242792E=01.
$14
               536
                                                                                                      DATA 500
                     -3.2662589E-01, -2.8469446E-01,
915
               F37
                                                                                  =4.6763141E=01. DATA 301
                        .9090939E-02,
               538
916
                                         -2.7483600E-02,
                                                               4x4361534E-02,
                                                                                   1.1566625E=01, DATA 502
               539
                      1.8251577E-01,
917
                                           2,4273663E=01;
                                                                                   3.3137398E=01/
                                                               249338266E-01,
                                                                                                      DATA 503
918
919
                    ATA (BCHOON(1), 1=325, 360,/
3.53813006-01, 3.5843469E-01,
                                                                                                      DATA 504
               541
                                                               3,4405548E-01.
                                                                                    3.1084757E=01,
                                                                                                      DATA 505
920
               542
                        .6031223E=01,
                                           1,95043016=01,
                                                               1.1841242E-01.
                                                                                   3.4357296E=021
                                                                                                      DATA 506
                        .26956526-02,
921
               543
                                         -1.3782722E=01.
                                                              -2-1568890E-01,
                                                                                  -2.8080228E=01,
                                                                                                      DATA 507
                        .2820424E-01, -3.5435079E-01, 0365416E-01, -2.5286235E-01,
922
                                                              =3,5791381E=01, =3.4000455E=01,
=1,9171072E=01, =1.2383727E=01,
               544
                                                                                                      DATA 508
               545
$23
                     -3
                                                                                                      DATA 509
324
               546
                     -5.2284436E-02,
                                                                                    1.40248045-01.
                                           2.0406561E=02.
                                                               9-19846215-02,
                                                                                                      DATA 510
925
               547
                        . 22828616-01,
                                           2.7704811E=01.
                                                               3,1990704E-01,
                                                                                    3.48273126-01,
                                                                                                      DATA 511
$26
$27
                        ,5930547E-01,
               548
                                                                                   2.7620297E=01,
                                           3.51044775-01.
                                                               3. 2296060E-01,
                                                                                                      DATA 512
                                                               5,75764286-02, =3.956388. 02/
                        .1344683E~01,
                                           1.3845154E-01,
                                                                                                      DATA 513
                   DATA (BCMOON41), 1=361,368,/
-1,18260246-01, -1.93760476-01,
528
                                                                                                      DATA 514
                                         -1.9376047E-01, -2.6134979E-01, -3.1360475E-01, -3.5904177E-01, -3.4981264E-01, -3.2096634E-01/
929
                                                                                                      DATA 515
930
               552
                     -3.4639607E-01.
                                                                                                      DAYA 516
                   DATA (RMOON 61), I:
5;6717946E 01,
931
                                           1: 361/
5:6832482E 01;
                                                                                                      DATA 510
                                                               5.71591975 01.
                                                                                   5.7649494E 01.
                                                                                                      DATA 517
               562
                        .8248082E 01.
$33
                                           5.8902551E 01:
                                                               5y95700116 01.
                                                                                    6.0220076E 01.
                                                                                                      DATA 518
                      6,08345326 01.
534
               563
                                           6.1404581E 01;
                                                               6x1926819E
                                                                                    6.2399060E 01, DATA 519
                       6.2816763E 01,
6.3673907E 01,
                                                               6-8445371E
6-3323087E
                                                                                   6.3620912E 01.
6.2888072E 01.
935
               564
                                           6.3170575E
                                                                                                      DATA 520
                                                        01.
936
               565
                                           6.35811205
                                                         01.
                                                                                                 011
                                                                                                      DATA 521
937
                        . 2275904E 01.
               566
                                                               6x0596588# Q1,
                                           6:1501342E
                                                                                    5.9612232E 01,
                                                        01.
                                                                                                      DATA 522
                        .86158148 01.
938
               567
                                           5.7687190E
                                                               5+4909812E
                                                                                    5.4359180E
                                                                             011
                                                         01,
                                                                                                 01.
                                                                                                      DATA 523
                        .60893216 01.
77585786 01.
                                                                                   5.7012903E 01,
6.0347486E 01/
                                                               5.445445E 01,
939
               568
                                           5.6122548E 01.
                                                                                                      DATA 524
                                                               5.9490562E 01,
540
                                           5.8608023E
                                                                                                      DATA 525
                                           37, 721/
6:1829397E
341
                   DATA (RHOON 63) . I .
                                                                                                      DATA 526
                                                                                    6.2889792E 01.
                                    01.
                                                         01,
                                                               6-2414896E 01,
                                                                                                      DATA 527
                        32573626 01,
                                           6:3522768E
943
               572
                                                               6.86895758 01.
                                                         01:
                                                                                    6.3757459E
                                                                                                 911
                                                                                                      DATA 528
                        3721307E 01,
2333679E 01,
                                                               6,82973278
344
               573
                                           6.3571816E
                                                                                    6.2886819E
                                                                                                 011
                                                                                                      DATA 529
                                           6:1639785E
945
               574
                                                               6x0819501E 01.
                                                                                    5.9903044E
                                                         01.
                                                                                                011
                                                                                                      DATA 530
               575
                        ,8938337E
                                    01.
$46
                                           5.7990283E G1.
                                                               5.7136399E Q1,
                                                                                    5.4458152E
                                                                                                      DATA 531
                                                                                                 011
                                    01,
947
               576
                        .6028448E
                                                               5.60832066
                                           5.5897765E
                                                                                    5.6564511E
                                                                                                 011
                                                                                                      DATA
                                                         01.
                                                                            01,
                                                                                                            532
548
                        .7288526E
                                    01,
               377
                                           5:8180322E 01:
                                                               5×9156925E
                                                                                    6.8139426E Q1.
                                                                                                      DATA 533
                        110625415 01,
34402385 01,
(RMOON 11); 14
                                                                             01.
               578
                                           6.1876963E
                                                               6,25521526 01,
                                                        014
349
                                                                                    6.4073662E 01:
                                                                                                      DATA 534
350
                                                        01.
                                                               6x8746353E 01,
                                           6.3660001E
                                                                                    6.3714169E
                                                                                                 01/
                                                                                                      DATA 535
951
952
                                           73,1081/
                                                                                                       DATA 536
                       6
                                           6.3342988E 01,
                                                               6.8018187E 01,
                                                                                    6.2602853E 01,
                                                                                                      DATA 537
                        .2095525E
                                    01,
553
               582
                       6
                                           6.1493714E
5.8412947E
                                                                6,08077588 01,
                                                                                    6.8044919E
5.4978970E
                                                         01.
                                                                                                       DATA 538
554
               583
                                     01,
                                                               5,76397128 01.
                                                         010
                                                                                                 011
                                                                                                      DATA 539
                        6498771E
7204994E
                                                                                    5.6619924E
5.9962370E
               584
                                    01,
                                                               5.02960196
5.8923090E
355
                                           5.6258351E
                                                                             01.
                                                        01.
                                                                                                 01.
                                                                                                      DATA 540
               585
356
                                    01,
                                           5.7997143E
                                                         01.
                                                                             01,
                                                                                                 010
                                                                                                      DATA
                                                                                                            541
                                                               6,2456275E
6,3625146E
                        .0858288E
                                           6:1725855E
357
               586
                                                                                    6.40184386
                                    01,
                                                         01.
                                                                             011
                                                                                                 011
                                                                                                      DATA
                                                                                                            542
                       6.3398211E
6.3262382E
6.1327779E
               587
                                           6:3596289E
                                                        01 4
                                                                            01,
358
                                    01,
                                                                                    6.8505472E
                                                                                                 01:
                                                                                                      DATA
                                                                                                            543
               588
359
                                                                6.25074056
                                    01,
                                           6.2921814E
6.0984573E
                                                                                    6.2038223E 01/
5.9828271E 01/
                                                                                                       DATA
360
                                                                6.0414140E
               589
                                                                                                      DATA
                                                         01.
                                                                                                            545
961
962
                     TA (RMOON 61), [ 109,144)/
5,9218868E 01, 5,8621729E
                                                                                                       DATA 546
               591
                                                        01.
                                                               5.8058745E 01.
                                                                                    5.7568127E
                                                                                                 01 :
                                                                                                      DAYA 547
                        .7195226E 01.
               592
                                                               5.4979709E 01.
963
                                           5.6986259E 01.
                                                                                    5.7197388E 01,
                                                                                                      DATA 548
                        7437880E 01.
               575
                                           5.8274487E
                                                        014
                                                               5,909835in Q1.
                                                                                    5.9925594E 01:
364
                                                                                                      DATA 549
                        .0806297E 01.
                                           6.16330622 01:
965
966
               594
                                                                6.2347758E
                                                                             01,
                                                                                    6.2965933E 011
                                                                                                      DATA 550
               595
                                                                6+$436603E 01.
                                                                                                      DATA 551
                                                                                    6.4241166E 01,
967
                                                        014
                                                                                   6.1328004E 01:
5.9214939E 01:
               596
                        . 2896173E 01;
                                           6.2436688E
                                                               6-19012926 01,
                                                                                                      DATA 552
                                    011
368
                       6,0750481E
                                                               5x96799086 01,
                                           6.0195162E
                                                        011
                                                                                                      DAPA 593
```

	2.2										
569		5,88031625	01: 5:84478106	01.	5 8 1 5 2 3 9 6 E	01.	5.7925859E	011	DATA	554	
279		5.77834268		01.	5. 1832977E	01.	5.8063869E	01/	DATA	559	
971		A CHADON ()	19414511809/						DATA	556	6
772	601	5,84432096	01, 5,89644456	01.	5,96025386	01,	6.0317928E	01,	DATA		
573	605	6.10602158	01, 6,1773923E	01.	6.24045876	01,	6.2964133E	010	DATA	558	
374	603	6,32350746	01, 6:3373348E	01:	6.33099378	01.	6.3051327E	01:	DATA	559	
975	604	6,2618894E	01: 6:2047224E	01.	6.1381252	01.	6.86722985	010		560	
376	605	5,99728886	01, 5,93312345	01:	5,87859036	01.	5.8362039E	01.		561	
377	606	5.80700216	01, 5.79069988		5.7860889E	01.	5.7915700E	01.	DATA		
978	607	5,80565696	01: 5.9273185E	01.	5.8560773E	01.	5.8918619E	011			
979	608	5.93467986	01, 5,9842160E	01.	640394744E	01.	6.8985602E	01.	DATA	564	
980	609	6.15865245	01, 6,2161695E	01.	5-2670837E	01.	6.3073164E	01/		569	
981	DAT	A CRMOON LI	1) 1 1 8 1 8 1 1 2 1 6 1/		7922 902 0					566	6
582	611	6,3331587E		01;	6.53095848	01,	6.4005402E	01;	DATA	567	-
383	612	6.25140528	01. 6.1361392E	01.	6-1088578E	01,	6.9249950E	01,	DATA	568	
784		5.94088988	01, 5.8631680E	01.	5×7979619E	01,	5.2500940E	011		569	-
505	614	5,72241436	01: 5.71548796		5.72773975	01.	5.2560145E	01,			
586	615	5.79636734	01, 5.8443468E		5,89807788	01,	5.9535512E	011		571	
587	616	3.00962295	01, 6.06529268		6+11936285	01.	6.1725798E	01,	DATA	572	
588	617	6.22234136	01. 6.2675246E		6.8059635E	01.	6.4350709E	01,	DATA	573	
589	618	6.3520796E	01, 6.35435536		6.5397483E	01,	6.3069517E	01:	DATA	-	
390	619	6,2558316E	01. 6.1877032E		6.1055189E		6.9139222E		DATA		
591		A CRMOON 61	11118217,2521/							576	6
992	621	5,91909646	01, 5.8283391E	01,	5,74932628	01,	5.6891053E	01.		577	•
393	622	5.6529903E	01, 5.64364536		5,6606688E	01,	5.7008360E	011	DATA	578	
994		5.75891505	01. 5.8287631E		5,90437108	01,	5.9806201E	01:		579	
995	624	6.03366856	01, 6.1209990E			01.	6.2336794E	01.	DATA		
996	625	6,27817185	01: 6:3144949E		6-3422177E	01,	6.3605154E	01,	DATA		
997	626	6.36815615	01, 6.35361338		6:84528165	01.	6.3117801E	011	DATA	582	
998	627	6.24232125	01. 6.1970942E		6-11761925	01.	6.8270236E	01.		583	
599	628	5.9301784E	01, 5.8335928E		5.74497448	01,	5.6723962E	01	DATA	584	
600	629	5.62312215	01, 5.6023089E		5.61196335	01.	5.6505311E	01/	DATA	585	
601			11.1:253;2881/	•	*****				DATA		6
602	631	5.7132870E	01, 5,7933778E	01,	5,8831367E	01,	5.9752646E	01,			
403	632	6.06364938	01. 6.1437707E		6-21275375	01,	6.2691716E	01.		588	
604	633	6,3127096E	01, 6.3437782E		6.36312748	01.	6.3715028E	01.		589	
605	634	6,3493938E	G1. 6:3569007E		6.83372445	01,	6.2992821E	01:		590	
606	635	6,25295546	01, 6.1944421E		6112415696	01.	6.04352425	011	DATA	591	
07	6:6	5.95580936	01, 5.86530556		5.77826246	01,	5.1019479E	011	DATA		
608	637	5.6438927E	01, 5,61068876	01.	5.4066897E	01.	5.6330136E	01:			
609	638	5.68721136	01, 5,7637413E	011	5.85506868	01.	5.9529850E	011		594	
610	639	6.0497731E			6.21592865	01.	6.2776072E	01/	DATA	595	
611	DAT	A LAMGON SI	1) 1 1 = 289 , 324 , /							596	6
612	641	6.32272836	01. 6,3513442E	01.	6.36451086	01.	6.3639045E	010	ATAG	597	
613	642	6.3514458E	01. 6.3289674E	01.	6-29796188	01.	6.2594398E	01.	DATA	598	
414	643	6.21392945	01. 6:16162726	01.	6.10268635		6.8375887E	01.	DATA		
615	644	5.96755056	01, 5,8948856E	01.	5 8 232294E	01.	5.75750616	011	DATA		
616	645		01. 5.6673521E	01.	5.6940097E	01.	5.6666303E	010	DATA	601	
617	646	5.70550745	01. 7.76787106	014	5.84830135	01.	5.9396311E	014	DATA	602	
618	647	6.03416235	01, 5:12447765	014	6,20437808		6.26921855	01.	DATA		
419	648	6.3161004E		01.	6,85278328		6.3445464E	011	DATA	604	
620	649	6.32166346	01, 6:2872163E	01,	6+2444409E	01,	6.1963557E	01/			
421	PAT	A CHMOON I	1101+329.3601/					200	DAYA		6
632	651	6,14546296	01, 6,0935734E	01,	6+04179228	01,	5.9966771E		DATA		
623	652	5,94054796	01, 5:39188965	01.	5.84575565		5 80405805	01:	DATA		
424	653	5,7696354				01.	5.74553398	011	DATA	609	
625	654	5,77351428	01. 5.82062995		5.88438288		5.9602625E				
626	655	6,04234545	01. 6.12408385		6.19905868		6.2617903E	01:	DATA		
627	656	6,36788935	01, 6:3346316E		6,84091696	01.	6.32727035	011	DATA		
628	657	6,29570295	01. 6:2494726E	01.		01.	6.1302033E	01.		613	
629	658	6,04650296	01, 6:0058367E	014	5,95147745		5.9055136E	011	DATA		
630 631	659	5.86881176	01, 5.84122666	011	5,82201456	01,	5.8103365E	01/	DATA	615	
431	501	5 8 67 84 C	11/19361,3681/		E N. 00		E 89882028		DATA		6
632 633	662	5.8688202E		21!	5.5188573E	01'	5.8386496E	010	DATA		
	END		01, 5,9099398E	01,	5,9615105E	471	6.8216896E	01/	DATA		
634	6.40								DATA	973	6

```
71084 02 11-03-72
                         11.705
                                          1975 ERHEMERIS
          PREFACE
     PROGRAM BREAK
                         4273
     COMMON LENGTH
   RRIMARY SYMDEF
                       ENTRY
       TABLE
 SECONDARY SYMDEF ENTRY
       BLOCK
                       LENGTH
      EBHBLK
                            11
       SYMREF
  END OF BINARY CARD #1975#19
  4273 IS THE NEXT AVAILABLE LOCATION.
MAP VERSION/ASSEMBLY DATES JMPA 11
HERE HERE NO HARNING FLAGS IN TH
                       MBLY DATES JMPA 110171/102971
HARNING FLAGS IN THE ABOVE ASSEMBLY
                                                                        J4PB 110171/102971
                                                                                                      JMPC 110171/102971
 THERE HERE
 +0 19411 WORDS OF MEMORY HERE USED BY GMAP FOR THIS ASSEMBLY.
                                       1976 EPHENERIS
                           11.727
71084 02 11-03-72
                               1976 SPHENERIS
               C=1976*
                                                                                                               DATA
                                                                                                                        3
                       SUBROUTINE TABLE
                                                                                                               DATA
                       DIMENSION RASUN (369), DCSUN (369), RSUN (369)
                                                                                                               DATA
                                                                                                                        3
                       DIMENSION RAMOD9(369), DCMOON(369), REDON(369)
                                                                                                               DATA
                       DIMENSION ARRAY(2214)
                       DOUBLE PRECISION Y
                       EQUIVALENCE (RASUM, ARRAY), (DCSUM, ARRAY(370)), (RSUM, ARRAY(739))
EQUIVALENCE (RAMOON, ARRAY(1108)), (DEMOON, ARRAY(1677))
EQUIVALENCE (RMOON, ARRAY(1846))
                       COMMON /EPHBLK/
Y(1) = ARRAY(1)
                                             V(4), I
     11
                       Y(2) = ARRAY(1+1)
Y(3) = ARRAY(1+2)
                                                                                                                            2
                                                                                                                             3
                       Y(4) + ARRAY(1+3)
     14
    15
                       RETURN
                       DATA (RASUN (I), I*
4.87710246 00,
4.95418516 00,
                                                1, 361/
4,8964066E 00,
     16
                                                                                                                        6
     17
                    11
                                                                      4-9156903# 00.
                                                                                           4.9349507E 00:
                                                                                                                        7
                                                                                                               DATA
                                                                                           5.9117091E 00. DATA
5.9879100E 00. DATA
5.2634361E 00. DATA
                                                                      4.9925665E 00,
     18
                                                 4.97339126
                                                               004
                           5.0308166E 00;
5.1068587E 00;
5.1922008E 00;
5.2567579E 00;
     19
                                                                      5.0689189E 00.
5.1446233E 00.
                                                 5.04988725
                                                               000
     20
                                                5.1257637E 00.
                                                                                                                       10
                                                                      5,2195815E
                     15
                                                5.2009163E 00.
                                                                                           5.2381957E
                                                                                    00.
                                                                                                         QO. DATA
                           5.2567579E
                                                               00 2
                                                                      5,29372398
                                                                                    001
                                                                                                          QQ BATA
     22
                                                 5.2752675E
                                                                                           5.31212645
                                                                                                                       12
                           5.3304749E 00,
5.4033114E 00,
                                                                                           5.4573343E 00,
                                                                      5,3670059E
                                                 5.3487682E
                                                                                    00:
     23
                                                               00.
                                                                                                         DO: DATA
                                                                                                                       13
                                                                      5,43938366
                                                5,4213777E
     24
                                                               004
                                                                                    00.
                                                                                                               DATA
                                                                                                                       14
     25
                             .4752234E
                                          00,
                                                 5.4930527E
                                                                      5.9108220E
                                                                                    00.
                                                                                           5.5285311E
                                                                                                               DATA
                                                               00.
                                                                                                         00/
                       DATA (RASUN 11) 11
     26
                                                37, 721/
                                                                                                               DATA
                                                                                                                       16
    27
                           5.5461801E 00,
                                                                      5,9812980E 00.
                                                                                           5.5987675E QO:
                                                5,5637689E
                                                              000
                                                                                                               DATA
                     53
55
     28
                           5,6161777E
5,6852375E
                                          00,
                                                                      5,65082286
                                                                                                                       18
                                                5.6335294E
                                                                                    00:
                                                                                           5.4689387E
                                                                                                         DO: DATA
                                                               004
                             .6852375E 00.
     29
                                                 5.7023603E
                                                              000
                                                                      5,7194280E
                                                                                    001
                                                                                           5. 8364417E
                                                                                                         DO. DATA
                                                                                                                       19
                                                                      5.78717096
                                                                                                         QUE DATA
                                                 5.7703118E
                                                               000
                                                                                           5.8039812E
     30
                                                                                    00.
                                                                                                                       20
                             .8207443E
                                                 5.8374610E
                                                                      5,85413246
                                                                                           5.8707597E
                                                                                                               DATA
                                         00.
                                                                                    00,
                                                                                                         000
     31
                                                               00 4
                             .8873437E 00,
                                                              000
                                                                      5,92038588
                                                                                           5.9532666E QQ.
     32
                                                 5.9038855E
                                                                                    001
                                                                                                               DATA
                                                                                                                       23
                     27
                           5,9496491E 00:
                                                                      6,0023041E 00.
     33
                                                 5,9859946E 00.
                                                                                           6.8185789E 00. DATA
                                                                                                                       23
                                                                      6.0672067E
6.1316338E
                           6,0348201E 00,
6,0994745E 00,
                                                6:0510290E 00.
6:1155670E 00.
                                                                                           6.8833548E 00:
6.2476761E 00/
                                                                                                               DATA
                                                                                    00.
                                                                                                                       24
     34
     35
                                                                                                               DATA
                       DATA (RASUN $12.1 = 6,1636955E 00,
                                                73,108)/
6.1796937E
     36
37
                                                                                                               DATA
                                                                                                                       25
                                                              00,
                                                                      6x1956725E 00.
                                                                                           6.2116334E 00.
                                                                                                               DATA
                             .2275786E 00.
                                                 6.2435100E 00:
                                                                      642594296E 00,
                                                                                           4.2753392E 00.
                           6
                                                                                                               DATA
     38
                                                                                                                       28
                             ,09524326=03,
                                                                      3.9838736E-02,
     39
                     33
                                                 2:3949690E=02i
                                                                                           5.9723933E=02,
                                                                                                               DATA
                                                                                                                       29
                                                8.7487747E=02.
1.5102598E=01.
                           7,1606493E=02,
1,3313684E=01,
                                                                      1,03369028-01,
                                                                                           1.4929161E=Q1.
1.8282096E=Q1.
                                                                                                               DATA
     40
                                                                                                                       30
     41
                                                                                                                       31
```

.98729245=01,

2.1464629E=01,

2×80573278-01,

2.4651141E=01, DATA

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76 DATA (ASUN 11):1217,252] 77 71 2,322675E 00, 2359039FE 00, 2,3738012E 00, 2.3923012E 00, DATA 68 72 2.4001572E 00, 2:4257700E 00, 2*4423400E 00, 2.4588682E 00, DATA 68 79 73 2.475353E 00, 2:4918021E 00, 2*73640E 00, 2.589680E 00, DATA 68 80 74 2.5809202E 00, 2:5978051E 00, 2*73640E 00, 2:589680E 00, DATA 70 81 75 2.658778E 00, 2:4223741E 00, 2*381577E 00, 2:6542496E 00, DATA 71 82 76 2.658778E 00, 2:4223741E 00, 2*381577E 00, 2:6542496E 00, DATA 71 83 77 2.734244E 00, 2:7901703E 00, 2*656390E 00, 2.7183114E 00, DATA 73 84 78 2.7977638E 00, 2:335807E 00, 2*263739E 00, 2:841502E 00, DATA 73 85 79 2.8609033E 00, 2:8766427E 00, 2*3923738E 00, 2:841502E 00, DATA 74 85 79 2.8609033E 00, 2:8766427E 00, 2*9923738E 00, 2:841502E 00, DATA 74 86 DATA (ASSUM 11)11253;2881/ 87 81 2*2937641E 00, 2:75394466E 00, 2*7957194E 00, 2.9708784S 00, DATA 75 88 82 2*29864330E 00, 3:022009P 00; 3:077477E 00, 3:0333996E 00, DATA 77 88 82 82 2*9864330E 00, 3:022009P 00; 3:077477E 00, 3:0333996E 00, DATA 78 89 83 3*30490460E 00, 3:022009P 00; 3:077477E 00, 3:0333996E 00, DATA 78 89 83 3*3049099E 00, 3:054604E 00, 3*0777477E 00, 3:033796E 00, DATA 78 89 83 3*304909E 00, 3:054604E 00, 3*073679E 00, 3:058070E 00, DATA 78 89 83 3*304909E 00, 3:054604E 00, 3*073679E 00, 3:2846740E 00, DATA 88 89 83 3*304909E 00, 3:354034E 00, 3:2836869E 00, 3:2836870E 00, DATA 88 89 83 3*304909E 00, 3:354034E 00, 3:2836869E 00, 3:2836870E 00, DATA 88 89 80 3*336868E 00, 3:3799976E 00, 3*28368E 00, 3:481174E 00, DATA 88 99 90 30 3:68368E 00, 3:799976E 00, 3*2836869E 00, 3:481174E 00, DATA 88 99 93 3:68368E 00, 3:79986E 00, 3*799976E 00, 3*399833E 00, 3:49114E 00, DATA 88 99 93 3:68368E 00, 3:799876E 00, 3*284042E 00, 3*441431E 00, 3*441431E 00, 3*441431E 00, DATA 89 90 91 3:6826876E 00, 3*441431E 00, 3*677859E 00, 3*4998E 00, DATA 89 91 92 3:5978934E 00, 3*598866E 00, 3*799996E 00, 3*74359E 00, 3*4998E 00, DATA 89 91 92 3:5978934E 00, 3*59886E 00, 3*799996E 00, 3*74399E 00, 3*4998E 00, DATA 89 91 91 3:492695E 00, 3*99886E 00, 3*99898E 00, DATA 99 91 91 4*140	1								
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78		, PA	TA . CHASUN . 1174	4517,55517					6
79							DATA	67	
81 75 2,6058778E 00, 2.9572051E 00, 2.9331377E 00, 2.938469E 00, DATA 71 82 76 2,6058778E 00, 2.6220341E 00, 2.9381377E 00, 2.6342496E 00, DATA 71 83 77 2,7342344E 00, 2.7501703E 00, 2.7660598E 00, 2.7812339E 00, DATA 72 83 77 2,7342344E 00, 2.7501703E 00, 2.7660598E 00, 2.813239E 00, DATA 73 84 78 2.7977638E 00, 2.8135807E 00, 2.82823535E 00, 2.8451502E 00, DATA 73 85 79 2.8609033E 00, 2.8766427E 00, 2.8923535E 00, 2.8960704E 70, DATA 74 85 79 2.8609033E 00, 2.8766427E 00, 2.8923535E 00, 2.9080704E 70, DATA 75 86 DATA (SASUN (1),1253/288) 7 87 81 2.9237641E 00, 2.9394466E 00, 2.9551194E 00, 2.9707843E 00, DATA 77 88 82 2.9864430E 00, 3.0020969E 00, 3.01777777E 00, DATA 78 89 83 3.0490460E 00, 3.05646964E 00, 3.00303466E 00, 3.0960070E 00, DATA 79 90 84 3.1116667E 00, 3.1273391E 00, 3.1233396E 00, 3.25833969E 00, DATA 82 91 85 3.1743999E 00, 3.1901086E 00, 3.2688664E 00, 3.258302E 00, 3.221657E 00, DATA 82 92 86 3.2373165E 00, 3.2530840E 00, 3.2688664E 00, 3.2688674E 00, 3.2848740E 00, DATA 82 93 87 3.304999E 00, 3.316374E 00, 3.258302E 00, 3.221657E 00, DATA 83 94 86 3.3440428E 00, 3.3793976E 00, 3.785322109E 00, 3.448174E 00, DATA 83 95 89 3.4280545E 00, 3.3988666E 00, 3.925785E 00, 3.448174E 00, DATA 84 95 89 3.4280545E 00, 3.5743180E 00, 3.7852109E 00, 3.472007E 00, DATA 84 96 DATA (RASUN (1),112897324) 60, 3.9724703E 00, 3.67315E 00, DATA 84 97 91 3.4026395E 00, 3.7753847E 00, 3.7924703E 00, 3.67315E 00, DATA 84 98 92 3.5578934E 00, 3.7753847E 00, 3.7924703E 00, 3.67315E 00, DATA 87 98 92 3.7883377E 00, 3.7753847E 00, 3.7924703E 00, 3.774342E 00, DATA 87 101 95 3.7883377E 00, 3.7753847E 00, 3.7924703E 00, 3.67315E 00, DATA 87 102 96 3.8268748E 00, 3.7953847E 00, 3.7924703E 00, 3.67315E 00, DATA 97 103 4.2565070E 00, 4.7952711E 00, 4.70744117E 00, AATA 97 104 98 3.9668276E 00, 3.9844031E 00, 3.9344646E 00, 3.794166E 00, DATA 98 105 4.4094284E 00, 4.2590403E 00, 4.2727916E 00, 4.2727916E 00, 4.273791E 00, 4.2797916E 00, 4.27779179E 00, AATA 97 108 109 4.4094284E 00, 4.2929068E 00, 4.2777916E 00, 4.279791E 00					244423400E 00.	2.4588682E 00.	DATA	68	
81			2,47535535 00			2.5245787E DOL	DATA	69	
82 76 2'6703102E 00, 2:8633402E 00; 2*7023403E 00, 2.7103114E 00, DATA 72 83 77 2.7342544E 00, 2:7901703E 00, 2*7605998E 00, 2:781223E 00, DATA 73 84 78 2:7977638E 00, 2:8135807E 00, 2*8293735E 00, 2:864502E 00, DATA 74 85 79 2.8609033E 00, 2:8766427E 00, 2*8923535E 00, 2:9080704E 20, DATA 75 86 DATA (FASUM 11)1*253;2881, 87 81 2.9237641E 00, 2:7394466E 00, 2*9591194E 00, 2.9707843E 00, DATA 76 87 81 2.9237641E 00, 3:0020969E 00, 3*0177477E 00, 3:9333969E 00, DATA 77 88 92 2.9864430E 00, 3:0020969E 00, 3*0177477E 00, 3:9333969E 00, DATA 77 89 93 30 30 499460E 00, 3:1273391E 00, 3*1430144E 00, 3:43587029E 00, DATA 79 90 84 3:116697E 00, 3:1273391E 00, 3*1430144E 00, 3:4587029E 00, DATA 80 91 85 3:1743999E 00, 3:1290186E 00, 3*203832E 00, 3:2215657E 00, DATA 81 92 86 3:2373165E 00, 3:190186E 00, 3*2358694E 00, 3:2456770E 00, DATA 82 93 87 3:3004995E 00, 3:319686E 00, 3*2358894E 00, 3:2456770E 00, DATA 82 93 87 3:3004995E 00, 3:3799796E 00, 3*3359695E 00, 3:3484174E 00, DATA 82 95 89 3:4280545E 00, 3:4441431E 00, 3*4602691E 00, 3:4764341E 00, DATA 83 96 97 3:4280545E 00, 3:4441431E 00, 3*4602691E 00, 3:4764341E 00, DATA 86 97 91 3:4926395E 00, 3:496313E 00, 3*2577923E 00, 3:6073155E 00, DATA 86 99 3:438084 [1]:1*269;3247/ 98 92 3:5578934E 00, 3:5785866E 00, 3*2577923E 00, 3:6073155E 00, DATA 86 100 94 3:696881E 00, 3:5785813E 00, 3*2677853E 00, 3:6073155E 00, DATA 86 101 95 3:7883357E 00, 3:5445313E 00, 3*2657858E 00, 3:6073155E 00, DATA 89 102 96 3:6268748E 00, 3:9445454E 00, 3*265785E 00, 3:6073155E 00, DATA 90 103 97 3:8963599E 00, 3:9445454E 00, 3*265785E 00, 3:495313E 00, 3*4745795E 00, 3:495313E 00, A*265755F 00, DATA 95 104 4:1887704E 00, 4:1290403E 00, 4:2224948E 00, 3:495316E 00, DATA 95 105 99 4:0883000E 00, 4:096048E 00, 3:9414554E 00, 4:223496E 00, 4:23585E 00, DATA 95 106 UATA (RASUM [1]:1*225;3601/ 107 4:18870704E 00, 4:2526968E 00, 4:2524964E 00, 4:25378E 00, DATA 95 107 4:18470704E 00, 4:2526968E 00, 4:2524964E 00, 4:25378E 00, DATA 96 107 4:189704E 00, 4:2526968E 00, 4:252496E 00, 4:25378E 00, DAT			2,54091025 00			2.5896880E QO.	DATA	70	
82 76 2,6703102E 00, 2,6863402E 00, 2,766159E 00, 2,783114E 00, DATA 72 83 77 2,734254E 00, 2,8153807E 00, 2,7660599E 00, 2,8851502E 00, DATA 73 84 78 2,7977638E 00, 2,8153807E 00, 2,8263535E 00, 2,8451502E 00, DATA 74 85 79 2,8609073E 00, 2,8766427E 00, 2,823535E 00, 2,9080704E 20, DATA 74 86 DATA (RASUN 1);11253;285]/ 87 81 2,9237641E 00, 2,939466E 00, 2,9591194E 00, 2,9707843E 00, DATA 75 88 82 2,9864430E 00, 3,0020969E 00, 3,0177477E 00, 3,0333969E 00, DATA 78 89 83 3,0490460E 00, 3,0646964E 00, 3,08339496E 00, 3,0803796E 00, DATA 78 90 84 3,116697E 00, 3,1273391E 00, 3,183676E 00, 3,2867029E 00, DATA 80 91 85 3,174399E 00, 3,1901086E 00, 3,2088302E 00, 3,221857E 00, DATA 80 92 86 3,2373165E 00, 3,233040E 00, 3,2688694E 00, 3,2846740E 00, DATA 82 93 87 3,304995E 00, 3,3133474E 00, 3,3382199E 00, 3,241514E 00, DATA 82 95 89 3,4280545E 00, 3,444431E 00, 3,48382199E 00, 3,442037E 00, DATA 84 95 89 3,4280545E 00, 3,444431E 00, 3,4602691E 00, 3,474434E 00, DATA 84 97 91 3,4926395E 00, 3,5088866E 00, 3,49251768E 00, 3,541514E 00, DATA 85 98 92 3,5378914E 00, 3,5743180E 00, 3,457595E 00, 3,673155E 00, DATA 89 99 93 3,623882E 00, 3,6445131E 00, 3,457595E 00, 3,673155E 00, DATA 89 99 93 3,623882E 00, 3,6445131E 00, 3,467355E 00, 3,673155E 00, DATA 89 101 95 3,7983357E 00, 3,7753847E 00, 3,4924905E 00, 3,491166E 00, DATA 89 102 96 3,826748E 00, 3,8441554E 00, 3,491468E 00, 3,491166E 00, DATA 89 103 97 3,8963589E 00, 3,984613E 00, 3,983468E 00, 3,491166E 00, DATA 89 104 4,838300E 00, 4,0563247E 00, 3,983468E 00, 3,491166E 00, DATA 99 105 4,184987E 00, 4,2029968E 00, 4,202448E 00, 4,203376E 00, DATA 99 106 107 4,184987E 00, 4,2029968E 00, 4,202448E 00, 4,203376E 00, DATA 99 107 4,184987E 00, 4,2029968E 00, 4,202448E 00, 4,314746E 00, DATA 99 109 4,0383000E 00, 4,2029968E 00, 4,202448E 00, 4,314746E 00, DATA 99 101 101 4,2857745E 00, 4,2029968E 00, 4,202496E 00, 4,2024	81			2:6220341E 00	2 2 6 3 8 1 5 7 7 E 00 .	2.6542496E 00.	DATA	71	
77			2,67031028 00,	2.6863402E 00	2,7023403E 00,	2.7183114E 00.	DATA	72	
84 78 2,7977638E 00, 2,8135807E 00, 2,8293738E 00, 2,8451802E 00, DATA 74 85 79 2,8609035E 00, 2,876427E 00, 2,8923535E 00, 2,9080704E 20/ DATA 75 86 DATA (RASUN [1],1=253;288]/ 87 81 2,9237641E 00, 2,9394466E 00, 2,9551194E 00, 2,7707843E 00, DATA 76 88 82 2,966443DE 00, 3,0022969E 00, 3,0174777E 00, 3,8333969E 00, DATA 77 89 83 3,0490460E 00, 3,0666964E 00, 3,0803496E 00, 3,936070E 00, DATA 78 89 83 3,0490460E 00, 3,1273391E 00; 3,1430164E 00, 3,2956070E 00, DATA 80 91 83 3,116697E 00, 3,1273391E 00; 3,1430164E 00, 3,2867029E 00, DATA 80 91 85 3,1743999E 01, 3,191086E 00, 3,2038302E 00, 3,221657E 00, DATA 81 92 86 3,2373165E 00, 3,12530840E 00, 3,2668694E 00, 3,2846740E 00, DATA 81 93 87 3,304995E 00, 3,3153474E 00, 3,33599833E 00, 3,446474E 00, DATA 83 94 88 3,3440428E 00, 3,3799976E 00, 3,3599833E 00, 3,4764341E 00, DATA 84 95 89 3,4880545E 00, 3,4441431E 00, 3,4662691E 00, 3,4764341E 00, DATA 84 96 DATA (RASUN [1],1=289;324// 97 91 3,4026395E 00, 3,5088866E 00, 3,9251768E 00, 3,5415114E 00, DATA 86 99 3,5578914E 00, 3,5743180E 00, 3,49797235E 00, 3,6073159E 00, DATA 88 100 94 3,6696891E 00, 3,7075199E 00, 3,6773151E 00, DATA 89 101 95 3,7883575E 00, 3,7753199E 00, 3,7244042E 00, 3,743425E 00, DATA 90 102 96 3,8268748E 00, 3,7075199E 00, 3,7244093E 00, 3,896534E 00, DATA 92 103 97 3,8063590E 00, 3,9138826E 00, 3,724403E 00, 3,896534E 00, DATA 92 104 98 3,9668276E 00, 3,9864013E 00, 3,742403E 00, 3,896534E 00, DATA 92 105 99 4,0383000E 00, 4,0363247E 00, 4,0744117E 00, 4,925465E 00, DATA 95 106 DATA (RASUN [1],1=289,73601E 00, 4,2212484E 00, 4,2398522E 00, DATA 96 107 101 4,1807704E 00, 4,2226968E 00, 4,2212484E 00, 4,367757E 00, DATA 96 108 102 4,1841987E 00, 4,2204968E 00, 4,2212484E 00, 4,367757E 00, DATA 96 109 4,3836107E 00, 4,2226968E 00, 4,2295964E 00, 4,367757E 00, DATA 97 108 102 4,1841987E 00, 4,2204968E 00, 4,229596E 00, 4,366941E 00, DATA 101 101 4,3836107E 00, 4,226968E 00, 4,227316E 00, 4,46787930E 00, 4,4689715E 00, DATA 103 114 108 4,660610E 70, 4,289610E 00, 4,4778599E 00, 4,478699E 00, DATA	83	77		2:75017038 00	2.7660598E 00.	2. 784 9239E 00.	DATA	73	
85 79 2.8609033E 00, 2.8766427E 00, 2.8923535E 00, 2.9080704E 20/ DATA 75 86 DATA (RASUN	84		2.7977638E 00.	2.8135807E 00	2-8293758E 00.		DATA	74	
### BY ### B1	85	79	2.8609053E 00,	2.8766427E 00				75	
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97 91 3.4926395ê 00, 3.5080866E 00, 3.9251768E 00, 3.5415114E 00, DATA 87 98 92 3.5578914E 00, 3.5743180E 00, 3.5907923E 00, 3.6073155E 00, DATA 88 99 93 3.6238802Ê 00, 3.6405113E 00, 3.6571855E 00, 3.6739111E 00, DATA 88 800 94 3.6906891E 00, 3.7075199E 00, 3.7244042Ê 00, 3.7413425E 00, DATA 90 801 95 3.7583357E 00, 3.7753847E 00, 3.7924903E 00, 3.8096534E 00, DATA 91 802 96 3.8268748E 00, 3.8441554E 00, 3.7924903E 00, 3.8788968E 00, DATA 91 803 97 3.8963589E 00, 3.8138826E 00, 3.8314684E 00, 3.8449166E 00, DATA 93 804 98 3.9668276E 00, 3.9846013E 00, 4.0024380E 00, 4.9203376E 00, DATA 94 805 99 4.0383000E 00, 4.0363247E 00, 4.0744117E 00, 4.9225605E 00/ DATA 95 806 102 4.1807704E 00, 4.1290403E 00, 4.212484E 00, 4.2398522E 00, DATA 96 807 102 4.1841987E 00, 4.2226968E 00, 4.2212484E 00, 4.2398522E 00, DATA 98 809 103 4.2585070E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 98 809 103 4.2585070E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 98 809 103 4.5627745E 00, 4.5550411E 00, 4.4666941E 00, DATA 101 801 104 4.383621E 00, 4.284790E 00, 4.4675691E 00, 4.4666941E 00, DATA 101 802 107 4.5627745E 00, 4.585041E 00, 4.4675691E 00, 4.4666941E 00, DATA 103 803 107 4.775543E 4.7869385E 00, 4.78563211E 00, 4.7756990E 00, DATA 103 804 105 4.4094254E 00, 4.585041E 00, 4.4073691E 00, 4.4473690E 00, 4.4473691E 00		The second secon			262050.74 001	A.4.04447 A01			
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99 93 3.6238802 00; 3:6405113E 00; 3:4571855 00; 3.6739111E 00; DATA 89  800 94 3.6906891 00; 3:775199E 00; 3:7244042 00; 3.7413425 00; DATA 90  801 95 3.7503357 00; 3:7753847 00; 3:7924903 00; 3:8096534 00; DATA 91  802 96 3.8268748 00; 3:8441554 00; 3:8461958 00; 3:8788968 00; DATA 92  803 97 3.8963589 00; 3:943626 00; 3:9314684 00; 3:9491166 00; DATA 93  804 98 3:9468276 00; 3:9846013 00; 4:024380 00; 4:0203376 00; DATA 93  805 99 4:0383000 00; 4:0563247 00; 4:0744117 00; 4:0925605 00; DATA 95  807 101 4:1107704 00; 4:1290403 00; 4:074417 00; 4:1657597 00; DATA 96  807 102 4:1841987 00; 4:1290403 00; 4:1473691 00; 4:1657597 00; DATA 98  809 103 4:2585070 00; 4:2772114 00; 4:2212484 00; 4:3147646 00; DATA 98  809 103 4:2585070 00; 4:255013 00; 4:3714350 00; 4:3147646 00; DATA 100  811 105 4:4094254 00; 4:284790 00; 4:3714350 00; 4:343504 00; DATA 100  812 106 4:4858521 00; 4:505041 00; 4:475691 00; 4:435044 00; DATA 101  813 107 4:5627745 00; 4:5850674 00; 4:4773930 00; 4:481715 00; DATA 103  814 108 4:6400610 00; 4:5850674 00; 4:475691 00; 4:481715 00; DATA 103  815 109 4:7175545 00; 4:5894219 00; 4:475691 00; 4:481715 00; DATA 105					3472717934 001				-
\$100 94 \$\frac{3.6906891E}{3.7583357E} 00. \$\frac{3.775199E}{3.7583357E} 00. \$\frac{3.7753847E}{3.7583357E} 00. \$\frac{3.7753847E}{3.7583357E} 00. \$\frac{3.7753847E}{3.7583357E} 00. \$\frac{3.7753847E}{3.8963599E} 00. \$\frac{3.786968E}{3.8268748E} 00. \$\frac{3.8268748E}{3.8963599E} 00. \$\frac{3.8268748E}{3.8963599E} 00. \$\frac{3.8264748E}{3.8963599E} 00. \$\frac{3.8264748E}{3.8963599E} 00. \$\frac{3.8264748E}{3.8963599E} 00. \$\frac{3.8264748E}{3.9963599E} 00. \$\frac{3.8264748E}{3.9968276E} 00. \$\frac{3.983626E}{3.9968276E} 00. \$\frac{3.983626E}{4.9963276E} 00. \$\frac{4.9203376E}{4.9923605E} 00. \$\frac{3.944117E}{4.9923605E} 00. \$\frac{3.9491166E}{4.9923605E} 00. \$\frac{3.9491166E}{4.9923605E} 00. \$\frac{3.92376E}{4.9923605E} 00. \$\frac{3.9238522E}{4.9938522E} 00. \$\frac{3.772114E}{4.994254E} 00. \$\frac{4.2926968E}{4.284790E} 00. \$\frac{4.3212484E}{4.284790E} 00. \$\frac{4.3147646E}{4.3147646E} 00. \$\frac{4.3147646E}{4.3147646E} 00. \$\frac{4.3525013E}{4.3525013E} 00. \$\frac{4.3714350E}{4.3994102E} 00. \$\frac{4.34394E}{4.34394E} 00. \$\frac{4.34394E}{4.34394			3 49788895						
\$101			3 400490020 001						
96 3.8268748E 00, 3.8441954E 00, 3.9314684E 00, 3.8788968E 00, DATA 92 303 97 3.8963589E 00, 3.9138826E 00, 3.9314684E 00, 3.9491166E 00, DATA 93 404 98 3.9668276E 00, 3.9846013E 00, 4.024380E 00, 4.023376E 00, DATA 94 405 99 4.0383000E 00, 4.0563247E 00, 4.0744117E 00, 4.9925605E 00/ DATA 95 406 DATA (RASUN 61), [1325, 360]/ 407 101 4.1107704E 00, 4.1290403E 00, 4.1473691E 00, 4.1657557E 00, DATA 96 408 102 4.1841987E 00, 4.2026968E 00, 4.2212484E 00, 4.2398522E 00, DATA 98 409 103 4.2585070E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 99 410 104 4.3336107E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 100 411 105 4.4094254E 00, 4.284790E 00, 4.475691E 00, 4.4666941E 00, DATA 101 412 106 4.4856521E 00, 4.5050411E 00, 4.5242592E 00, 4.666941E 00, DATA 102 413 107 4.5627745E 00, 4.5820674E 00, 4.9613810E 00, 4.6207131E 00, DATA 103 4.6400610E 70, 4.5894219E 00, 4.7756990E 00/ DATA 105			2.04000ATE 00						
97 3.8963589E 00, 3.9138826E 00, 3.9314684E 00, 3.9491166E 00, DATA 93 104 98 3.9668276E 00, 3.9846013E 00, 4.0024380E 00, 4.0203376E 00, DATA 94 105 99 4.0383000E 00, 4.0563247E 00, 4.0744117E 00, 4.9925605E 00/ DATA 95 106 DATA (RASUB 61), 1.8325, 360]/ 107 101 4.1107704E 00, 4.1290403E 00, 4.1473691E 00, 4.1657557E 00, DATA 96 108 102 4.1841987E 00, 4.2026968E 00, 4.2212484E 00, 4.2398522E 00, DATA 98 109 103 4.2585070E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 99 110 104 4.3336107E 00, 4.3525013E 00, 4.3714350E 00, 4.3964102E 00, DATA 100 111 105 4.4694254E 00, 4.4284790E 00, 4.4475691E 00, 4.4666941E 00, DATA 101 112 106 4.4856521E 00, 4.5050411E 00, 4.5242592E 00, 4.4666941E 00, DATA 102 113 107 4.5627745E 00, 4.5820674E 00, 4.6013810E 00, 4.6207131E 00, DATA 103 114 108 4.6400610E 7, 4.6594219E 00, 4.6787930E 00, 4.6981715E 00, DATA 104 115 109 4.7175543E 4.7369385E 00, 4.7563211E 00, 4.7756990E 00/ DATA 105	101		3.79033378 001						
98			3.82687485 00						
99 4.0383000E 00, 4.0563247E 00, 4.0744117E 00, 4.9925605E 00/ DATA 95 L06  DATA (RASUB 1), [#325,360]/  101 4.1107704E 00, 4.1290403E 00, 4.1473691E 00, 4.1657557E 00, DATA 96 L08 102 4.1841987E 00, 4.2026968E 00, 4.2212484E 00, 4.2398522E 00, DATA 98 L09 103 4.2585070E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 99 L10 104 4.3336107E 00, 4.3525013E 00, 4.3714350E 00, 4.3964102E 00, DATA 100 L11 105 4.4094254E 00, 4.284790E 00, 4.4475691E 00, 4.4666941E 00, DATA 101 L12 106 4.4858521E 00, 4.5050411E 00, 4.5242592E 00, 4.5435044E 00, DATA 102 L13 107 4.5627745E 00, 4.5820674E 00, 4.6013810E 00, 4.6207131E 00, DATA 103 L14 108 4.6400610E 70, 6.6594219E 00, 4.6787930E 00, 4.6981715E 00, DATA 104 L15 109 4.7175543E 4.7369385E 00, 4.7563211E 00, 4.7756990E 00/ DATA 105			3,89635894 00	3.7130826E 00					
DATA 96  LOT 101 4.1107704E 00, 4.1290403E 00, 4.1473691E 00, 4.1657557E 00, DATA 97  LOB 102 4.1441987E 00, 4.2026968E 00, 4.2212484E 00, 4.2398522E 00, DATA 98  LOS 103 4.2585070E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 98  LOS 104 4.3836107E 00, 4.3525013E 00, 4.3714350E 00, 4.3964102E 00, DATA 100  LOS 4.4694254E 00, 4.284790E 00, 4.4475691E 00, 4.4666941E 00, DATA 101  LOS 4.4694254E 00, 4.5050411E 00, 4.5242592E 00, 4.5435044E 00, DATA 102  LOS 4.4856521E 00, 4.5050411E 00, 4.5242592E 00, 4.5435044E 00, DATA 102  LOS 4.6400610E 7, 6.6594219E 00, 4.6787930E 00, 4.6981715E 00, DATA 104  LOS 4.7756938E 00, 4.7563211E 00, 4.7756990E 00/ DATA 105	104		3,96682768 00						
101 4.1107704E 00, 4.1290403E 00, 4.1473691E 00, 4.1657557E 00, DATA 97 108 102 4.1841987E 00, 4.2026968E 00, 4.2212484E 00, 4.2398522E 00, DATA 98 109 103 4.2585070E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 99 110 104 4.3336107E 00, 4.3525013E 00, 4.3714350E 00, 4.3964102E 00, DATA 100 111 105 4.4094254E 00, 4.284790E 00, 4.4475691E 00, 4.4666941E 00, DATA 101 112 106 4.4858521E 00, 4.5050411E 00, 4.5242592E 00, 4.5435044E 00, DATA 102 113 107 4.5627745E 00, 4.5820674E 00, 4.6013810E 00, 4.6207131E 00, DATA 103 114 108 4.6400610E 7, 4.6594219E 00, 4.6787930E 00, 4.6981715E 00, DATA 104 115 109 4.7175543E 4.7369385E 00, 4.77563211E 00, 4.7756990E 00/ DATA 105		Market Street, and the street,		4:0563247E 00	4 4 0 7 4 4 1 1 7 E 00 .	4.9925605E 00/	PATA		
108 102 4.1841987E 00, 4.2026968E 00, 4.212484E 00, 4.2398522E 00, DATA 98 109 103 4.2585070E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 99 110 104 4.3336107E 00, 4.3525013E 00, 4.3714350E 00, 4.3964102E 00, DATA 100 111 105 4.4094254E 00, 4.4284790E 00, 4.4475691E 00, 4.4666941E 00, DATA 101 112 106 4.4858521E 00, 4.5050411E 00, 4.5242592E 00, 4.5435044E 00, DATA 102 113 107 4.5627745E 00, 4.5820674E 00, 4.6013810E 00, 4.6207131E 00, DATA 103 114 108 4.6400610E 7, 4.6594219E 00, 4.6787930E 00, 4.6981715E 00, DATA 104 115 109 4.7175543E 4.7369385E 00, 4.7563211E 00, 4.7756990E 00/ DATA 105		DA	TA TRASUB (1)	*323,3601/			DATA		6
108 102 4.1841987E 00, 4.2026968E 00, 4.2212484E 00, 4.2398522E 00, DATA 98 109 103 4.2585070E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 99 110 104 4.3336107E 00, 4.3525013E 00, 4.3714350E 00, 4.3964102E 00, DATA 100 111 105 4.4094254E 00, 4.4284790E 00, 4.4475691E 00, 4.4666941E 00, DATA 101 112 106 4.4858521E 00, 4.5050411E 00, 4.5242592E 00, 4.5435044E 00, DATA 102 113 107 4.5627745E 00, 4.5820674E 00, 4.6013810E 00, 4.6207131E 00, DATA 103 114 108 4.6400610E 7, 6.6594219E 00, 4.6787930E 00, 4.6981715E 00, DATA 104 115 109 4.7175543E 4.7369385E 00, 4.7563211E 00, 4.7756990E 00/ DATA 105		101	4,1107704E 00,	4:1290403E 00		4.1657557E 00.		97	
109 103 4.2585070E 00, 4.2772114E 00, 4.2959644E 00, 4.3147646E 00, DATA 99  110 104 4.3336107E 00; 4.3525013E 00; 4.3714350E 00; 4.3904102E 00; DATA 100  111 105 4.4094254E 00; 4.4284790E 00; 4.4475691E 00; 4.4666941E 00; DATA 101  112 106 4.4858521E 00; 4.5050411E 00; 4.5242592E 00; 4.5435044E 00; DATA 102  113 107 4.5627745E 00; 4.5820674E 00; 4.6013810E 00; 4.6207131E 00; DATA 103  114 108 4.6400610E 77; 4.6594219E 00; 4.6787930E 00; 4.6981715E 00; DATA 104  115 109 4.7175543E 4.7369385E 00; 4.7563211E 00; 4.7756990E 00/ DATA 105		102	4.1841987E 00	4.2026968E 00				98	
110		103	4,2585070E 00	4.2772114E 00	4.2959644E On.		DATA	99	
111 105 4.4094254E 00: 4:4284790E 00: 4:4475691E 00: 4.4666941E 00: DATA 101 112 106 4.4858521E 00: 4:5050411E 00: 4:5242592E 00: 4:5435044E 00: DATA 102 113 107 4:5627745E 00: 4:5820674E 00: 4:6013810E 00: 4:6207131E 00: DATA 103 114 108 4:6400610E 77: 6:6594219E 00: 4:6787930E 00: 4:4981715E 00: DATA 104 115 109 4:7175543E 4:7369385E 00: 4:7563211E 00: 4:7766990E 00/ DATA 105		104	4,33361075 00					100	
112		105	4.40942546 00				DATA	101	
113		106	4,4858521E 00		4.5242592E 00.	4.5435044E 00.	DATA	102	
114 108 4.6400610E 7, 4.6594219E 00. 4.6787930E 00. 4.6981715E 00. DATA 104 115 109 4.7175543E 4.7369385E 00. 4.7563211E 00. 4.7756990E 00/ DATA 105		107	4.56277458 00	4.58206748 00	4-60138108 00.	4.6207131E 00.			
115 109 4.7175543E 4.7369389E 00, 4.7563211E 00, 4.7756990E 00/ DATA 105		108	4.64006108 -7	4.6594219E nn	4-6787930E DO.				
DATA (D.C.III) (1	115	109					DATA	105	
116 DATA (RASUN (1 -361,368)/ DATA 106	116	D	ATA (RASUN (	-361,368)/	THE THE THE THE	TAN SAN AND	DATA	106	6

```
4.7950698E 00, 4.8144310E 00, 4.8337801= 00, 4.8531146E 00, DATA 107
117
                     4.8724324E 00, 4.8917311E 00, 4.9110085= 00, 4.9302626E 00/ DATA 108
118
                 DATA (DCSUN (1),1= 1, 35)/
              121 -4:0416246E-01, -4.0293380E=01, =4,0157101E-01, =4.6367477E=01, DATA 109
120
                   -3,9844581E=01, -3,9668502E=01; =3,9479319E=01, =3.9277130E=01, DATA 113
121
             122
                   -3.9062032E-01, -3.8834138E=01 =3.8593556E-01, =3.8340103E=01, DATA 111
             123
122.
             124_=3.8074806E-01, -3.7795891E=01, =3.7506790E-01, =3.7204637E=01, DATA 112
123.
                 =3,6890578E=01,-3.6364755E=01, =3.6227303E=01, =3.5878370E=01, DATA 113
             125
124
125
             126
                      5518106E-01, -3.5145662E=01, =3,4764200=-01, =3.4370881E=01, DATA 114
                       3966872E-01, -3.3552359E-01, -3.31275276-01, -3.2692566E-21, DATA 115
126
              127
                   =3.2247670E=01, =3.1793033E=01, =3.1326854E=01, =3.0855329E=01, DATA 116
=3.0372664E=01, =2.9881052E=01, =2.9380695E=01, =2.8871791E=01/ DATA 117
127
              128
             129
128
                 DATA (BCSUN 11):18 37; 72)/
-2.63545486-01; -2.7829167E-01; -2.72958456-01; -2.6754789E-01;
129
                                                                                              DATA 118
130
                                                                                              DATA
              132
23:
                      .6206202E-01, -2.5650284E-01, -2.5087238E-01, -2.4517263E-01,
                                                                                              DATA 120
             133
                   -2
                      3940568E-01, =2.3357337E-01,
                                                        =2.2767765E-01, =2.2172040E-01,
                                                                                              DATA 121
132
                      ,1570351E-01,
                                     -2.0962881E-01, -2.0349820E-01, -1.9731361E-01,
133
             135
                      ,9107681E-01,
134
                                      =1.8478993E-01; =1,7845502E-01; =1.7207408E=01;
                                                                                              DATA 123
             136
135
                                                                                              DATA 124
                   -1,65649185-01; -1:59182396-01; -1:52679745-01; -1:89551056-01;
                   -1,32937016-01, -1.26291176-01, -1.19615506-01, -1.12911996-01, -1.06182576-01, -9.94291796-02, -9.26537436-02, -8.58981646-02,
136
                                                                                                   125
              138
137
                                                                                              DATA 126
                      .9044326E-02, =7.2214111E-02, =6.5369374E-02, =5.8512020E+02/
138
                                                                                              DATA 127
                   TA (BCSUN (1), 1 = 73,108,7

-7,16437596-02, -4,47663326-02,

-2,40959586-02, -1,71985946-02,
139
             141
                                                        -3, 1881439E-02, -3.6990780E-02,
                                                                                              DATA
141
                                                        =1,0300320E-02, =3.4027158E-03,
                                      -1 . 7198594E=02,
                                                                                              DATA 130
                    3,49239916-03,
142
                                                          1,7268076E-02,
                                       1.0383260E=02,
                                                                            2.4145091E-02,
                                                                                              DATA 131
                    3.10124626-02,
5.8349602E-02,
143
              144
                                       3.7968384E-02.
                                                                            5.15387296=02,
                                                          4 4 4 7 1 1 0 7 0 E - 0 2 .
                                                                                              DATA
144
              145
                                       6.5141924E=02.
                                                          7.19139326-02,
                                                                            7.8663872E=02. DATA
             146
                      .5389993E=02,
145
                                       9.2090563E=02,
                                                          9,87638515-02,
                                                                            1.8540814E=01,
                                                                                              DATA 134
             147
                                                          1,2514989E-01,
146
                    1,12021716-01,
                                       1.18602866=01,
                                                                                              DATA 135
                                                                            1.31661055-01,
              148
                     1.38134756-01.
147
                                       1.4456938E=01,
                                                          1.50963356-01,
                                                                            1.5731504E=01,
                                                                                              DATA 136
148
                     1.6362305Ec01,
                                                          1.76101996-01,
                                       1.6988585E=01,
                                                                            1.8226998E=01/
                                                                                              DATA 137
149
                  ATA (BCSUN $1) [1:109,144,
                                                                                              DATA
             151
                    1.88388206-01,
150
                                       1,9445505E=01,
                                                          2.0046893E-01,
                                                                            2.0642822E=01,
                                                                                              DATA 139
191
                      ,1233124E-01,
                                       2.18176336601,
                                                                             2.2968620E=014
                                                                                              DATA 140
                                                          2,23961866-01,
             153
152
                      .3534775E-01.
                                                          2 4 4 6 4 7 6 0 1 E - 01 .
                                       2.4094489Ec01;
                                                                            2.5193948E=01, DATA 141
153
             154
                     2.57333756-01,
                                       2.6265722E=Q1.
                                                          2,67908295-01,
                                                                            2.7308547E=Q1, DATA 142
             155
154
                      7818711E-01,
                                       2.8321169E=01.
                                                          2.8815766E-01.
                                                                            2.9302350E=01, DATA 143
155
             156
                     2,97807695=01,
                                       3.02508755=01:
                                                          3-07125316-01.
                                                                            3.1165592E=01: DATA 144
             157
156
                      16099286=01,
                                       3.2045411E#01.
                                                          3x2471912E=01,
                                                                            .. 2889301E=01:
                                                                                              DATA 143
                      .3297450E-01,
157
             158
                                       3.3696223E=01.
                                                          3.4085495E-01,
                                                                            3.4465136E=01.
                                                                                              DATA 146
158
                                       3.5194991E=01,
                                                          3.5544936E-01,
                     3.48350086-01,
                                                                            3.9884787E-01/
                                                                                              DATA 147
159
                 DATA (BCSUN (1), 1:145,180)
                                                                                              DATA 148
160
             161
                                       3,65335716=01,
                      ,6214364E-01,
                                                                            3.7140445E=01,
                                                          3.4842301E-01.
                                                                                              DATA 149
                      .7427897E=01,
                                       3:7704556EG01.
             162
                                                                            3.8225106E=01,
                                                                                             DATA 150
161
                                                          3479703236-01,
             163
162
                      .8468809E=01,
                                       3 . 8701344E -01.
                                                          3489226245-01,
                                                                            3.9132570E=01:
                                                                                             DATA 151
                      93310985-01,
163
             164
                                       3,9318137EG01,
                                                          3.96936195-01,
                                                                             3.9857484E=011
                                                                                              DATA
             165
                      ,0009676#-01,
164
                                        : 0150147E=01;
                                                          4,0278850E-01.
                                                                            4.03957395-011
                                                                                              DATA 153
165
             166
                      05007756-01
                                       4.05939216=01.
                                                          4.0675139E-01.
                                                                            4.0744400E=01,
                                                                                              DATA 154
             167
                                                          4.08801796-01,
                                                                            4.8901388E-01,
166
                      ,0801673E-01,
                                       4.0846938E=01;
                                                                                              DATA 155
             168
167
                      .0910557E-01.
                                                          4.08927955-01,
                                       4.0907690E=011
                                                                            4.08658855301,
                                                                                             DATA 156
             169
                      .0826974E-01, 4.0776093E-01;
(BCSUN (1),[+181,216)/
168
169
                                                          4.0713254E-01,
                                                                            4.86385216=01/
                                                                                              DATA 157
                                                                                                   158
                                                                                              DATA
170
171
              172
                    4.0851905E-01,
4.0087536E-01,
                                                                            4.0221216E=01, DATA
3.0616916E=01, DATA
3.8829650E=01, DATA
                                       4:04534485=01:
                                                          4 0 3 4 3 2 0 2 E = 0 1 .
3 . 9 7 8 5 3 2 2 E . 0 1 .
                                       3.9942215E_01;
              173
                      ,94370744-01.
                                       3.92458645601.
                                                          3.9043362E-01.
173
              174
                     3.8604810E=01,
                                       3.9368920E=01.
                                                          3.81220666-01,
                                                                             3.78643325=011
                                                                                              DATA
                                                                                                   162
              175
174
                     3.75958074=01,
                                       3.7316592E=01.
                                                          3.7026782E-01.
                                                                            3.6726483E=01,
                                                                                              DATA
                                                                                                   163
175
              176
                     3.64158926-01,
                                       3.5094853E-01,
                                                          3.9763756E-01.
                                                                            3.5422627E=011
                                                                                              DATA
              177
                     3,5071596E=01,
176
                                       3.4710789E-01.
                                                          3,43403352=01,
                                                                             3.3960378E=011
                                                                                              DATA
                                                                                                   165
                      .3571045E-01,
177
              178
                                         .3172478E=01,
                                                          3.2764815E-01,
                                                                            3.2348199E=01.
                 DAYA (BCSUN II) 12217 252)/
3.0135681E-01, 2.9668292E-04
                                                                                              DATA 166
              179
178
                                                          3-1046000E-01.
                                                                            3.0594966E=01/
                                                                                              DATA 167
179
                                                                                              DATA 168
180
                                                          2,91929355-01,
                                                                            2.8709770E=01,
              182
                     2,8218920E=01,
                                       2.7720530E=01,
181
                                                          2×7214739E-01,
                                                                             2.6701677E=01,
                                                                                              DATA
182
              183
                     2,6181490E-01,
                                       2.36543165901,
                                                                             2.4579587Ee011
                                                          2-7120305E-01.
                                                                                              DATA
                      .4032325E=01,
                                       2.3478657E=01.
183
             184
                                                          2,29187438-01,
                                                                             2.2352734E=01, DATA 172
                      ,1780785E-01.
              185
184
                                       2.12030576=01.
                                                          2.0619712E-01.
                                                                             2.6030904Ee01, DATA 173
                      ,9436804E-01,
185
              186
                                                                            1.2624385Ee011
                                       1.88375778-01;
                                                          1.82333828-01,
                                                                                              DATA 174
             187
186
                      .7010747E-01.
                                                          1,97701898-01,
                                       1.63926285501.
                                                                            1.5143602Ee01,
                                                                                              DATA 175
187
              188
                     1.4513015E-01,
1.1953839E-01,
                                       1:38785896=01.
                                                          1.82404815-01,
                                                                              . 25988476=01/
388
                                        1:1305605E=01,
                                                                            1.00000455-01/
                                                                                              DATA 177
                 DATA (BCSUN (1);1=253,288,/
9:34301276-02, 8.6833426E=02,
189
                                                                                              DATA
                                                          8.0211850E-02,
                                                                            7.3566879E=02,
                                                                                              DATA 179
```

```
192
                     6.6900062E-02,
                                        6.0212947E=02.
                                                          5.8507100E-02.
191
                                                                             4.4784097E202, DATA 180
             193
                      :00455656-02,
                                        3,3293145Esc2.
192
                                                          2,4528500E-02,
                                                                             1.9753262E=02, DATA 181
              194
                                                         e6,1845110E-04, =7.4186466E-03,
                      .29692076-02,
193
                                        5.1780630E=03,
                                                                                               DATA
                      .4220764E-02,
194
              195
                                      -2.1023067E-02, -2.7823804E-02, -3.4621136E-02,
                                                                                               DATA 183
              195
                      :1413398E-02.
195
                                      -4.8198852E-02; -5.4975755E-02; -6.1742341E-02; DATA 184
              197
                      8496950E-02,
196
                                      =7.5237912E=02, =8-1963570E=02, =8.8672278E=02,
                                                                                               DATA 185
                   -9.53623746-02, -1.02032186-01, -1.08680036-01, -1.1530422E-01, -1.21903016-01, -1.2847468E-01, -1.35017446-01, -1.4152953E-01/
197
                                                                                               DATA 186
                                                                                               DATA 187
198
                       (BCSUN (1), 1=289;324)/
4800911E-01, -1,5445436E-01, -1,0086339E-01, -1.6723434E-01,
200
                                                                                               DATA 188
DATA 189
                 DATA
              201
                      .7356524E-01,
201
              202
                                      -1.7985416E-01, -178609914E-01, -1.9229832E-01,
                                                                                               DATA
                      .9844969E-01, -2.0455122E-01, -2.1060097E-01, -2.1659689E-01, DATA 191, 2253699E-01, -2.2841927E-01, -2.8424171E-01, -2.4000827E-01, DATA 192
                      ,9844969E-01,
202
              203
203
              204
                   -2.4569903E-01, -2.5133004E-01, -2.5689338E-01, -2.6238710E-01, DATA 193
-2.6780938E-01, -2.7315828E-01, -2.7843188E-01, -2.8362833E-01, DATA 194
204
              245
205
                      ,88745685-01,
                                      -2,9378203E-01, -2,9873550E-01, -3.8360414E-01,
              207
                                                                                               DATA 195
306
                      .0838606E-01, =3.1307930E=01, =3.1768201E-01, =3.2219217E=01, DATA 196
207
              248
              209
208
                   -3.2660792E-01, -3.3092737E-01, -3.3514839E-01, -3.3926985E-01/
                                                                                               DATA 197
                 DATA (BCSUN (1), 1:325,360)/
-3.4328923E=01, -3.4720497E=01, -3.5101526E=01, -3.5471040E=01,
20,
                                                                                               DATA 198
                                                                                               DATA 199
              212
                    -3.5831261E-01, =3.6179617E=01, =3.6516736E-01, =3.6842454E-01,
211
                                                                                               DATA 200
              213
                   -3.7156609E-01, -3.7459051E-01, -3.7749630E-01, -3.8025204E-01,
212
                                                                                               DATA 201
213
              214
                    -3.8294642E-01, -3.8548804E-01, -3.8790575E-01, -3.9019824E-01, DATA 202
              215
214
                      .9236440E-01, =3.9440308E-01, =3.9631320E-01, =3.9809379E=01, DATA 203
                    -3
              216
                   -3.9974387E-01, -4.0126247E-01,
                                                         34,0264878E-01, 34.0390198E=01,
                                                                                               DATA 204
              217
216
                    -4.0502129E-01, -4.0600610E-01, -4.0685578E-01, -4.0756986E-01, DATA 205
217
218
                    -4.0814798E-01,
                                      =4.0858978E=01; =4.0889503E-01; =4.8906360E=01;
                                                                                               DATA 206
                    -4.0909531E-01,
                                      -4.0899017E-01, -4.0874809E-01, -4.0834918E-01/
                                                                                               DATA 207
219
                  ATA (BCSUN (1), [ =361,368)/
=4,07853586=01, -4.072014
                                                                                               DATA 208
                                      -4.0720147E=01; =4.0641317E-01, =4.0548902E=01,
              221
                                                                                               DATA 209
                    -4.04429506-01, -4:0323514E=01, -4:0190355E=01, -4.0044433E=01/
221
              222
                                                                                               DATA 210
                 DATA (RSUN | | | | 1; 36,/
9.8400871E=01, 9.8399358E=01,
222
                                                                                               DATA 210
                                                          9,8398222E-01,
                                                                             9.8397464E=01,
                                                                                               DATA
                                                                                                    211
                     9.83970816-01,
224
              232
                                        9.8397094E=01,
                                                          9,83975196-01,
                                                                             9.8398376E=011
                                                                                               DATA
                      :8399688E=01;
225
              233
                                        9.8401473E=01,
                                                          9.8403755E-01,
                                                                             9.84065595-011
                                                                                               DATA 213
                      ,8409899E-01,
                                        9.8413804E=01,
226
              234
                                                          9,84182975 01,
                                                                             9.8423397EG01, DATA 214
                     9.8429127E-01,
227
              235
                                                          9-8442486E-01:
                                         .8435488E=Q1
                                                                             9.8450118E=01, DATA 215
                      .8458398E-01.
228
              236
                                        9.8467284E=01,
                                                          9.8476750E-01.
                                                                             9.8486761E=01, DATA 216
                    9,84972865-01,
                                                                             9.8531601E=01:
9.8582594E=01:
229
              237
                                        9,8508292E=01,
                                                          9.8519741E-01.
                                                                                               DATA 217
              238
                      .8543826E-01.
                                        9.8556411E=01:
                                                          9.8569338E-01,
230
                                                                                               DATA 218
              239
                     9.85961625=01,
231
                                        9.86100490-01,
                                                          9,8624261E-01,
                                                                             9.8638804E=01/
                                                                                               DATA 219
                   ATA (BSUN Aliele
232
                                       37. 721/
                                                                                               DATA 220
                      .8653686E-01,
              241
233
                                        9,8668921E=01,
                                                          9.8684525E-01.
                                                                             9.87005112=01,
                                                                                               DATA 221
                      8716896g-01,
8786865E-01,
8864753E-01,
                                       9.8733702E=01.
9.8805561E=01.
9.8885519E=01.
9.8973061E=01.
                                                          9.8750953g-01,
9.8824766E-01,
              242
234
                                                                             9.8768668E=01:
9.8844489E=01:
                                                                                              BATA 222
235
              243
236
                                                                             9.8928452E=011
                                                          9,8906760E-01:
                                                                                               DATA 224
                      .8950566E-01,
              245
                                                                             9.9019034E=01: DATA 225
237
                                                          9x3995897E-01,
                      ,9042422E-01,
              246
                                                          9x9089869E-01.
238
                                        9:9066041E=01:
                                                                             9.9138047E=01, DATA 226
                      ,9162366E-01,
              247
239
                                        9.9186828E=01,
                                                          9,92114286-01,
                                                                             9.9236166E=01,
                                                                                               DATA 227
                      .9261043E-01,
240
              248
                                                          9,9311250E-01,
                                        9.9286068E=01;
                                                                             9.9336594E=01.
                                                                                              DATA 228
              249
241
                      .9362120E-01,
                                         .9387849E=01,
                                                          9,9413801E-01,
                                                                             9.9439985E=01/
                                                                                               DATA 229
                 PATA (RSUN 41),1=
9.9466427E-01,
242
                                        73,1081/
                                                                                               DATA 230
243
                                        9.9493150E=01;
                                                          9,9520168E=Q1,
                                                                             9.9547512E=011
                                                                                              DATA 231
                      ,9575156E-01,
244
              252
                                                          9+9631273E-01,
                                        9.9603082Ec01
                                                                             9.96597195=01, DATA 232
                      .9688370E-01,
245
              253
                                        9.9717186E=01.
                                                          9,97461246-01,
                                                                             9.9775133E=01, DATA 233
                      . 98041905-01.
              254
246
                                        9.9833261E-01;
                                                          9,9862318E-01,
                                                                             9.9891324E=01, DATA 234
                      ,9920268E-01,
                                                          9.9977899E-01,
247
              255
                                                                                               DATA 235
                                        9.9949130E=01,
                                                                             1.8000656E 00:
              256
248
                     1,00035125 00,
                                        1:0006356E 00,
                                                          1 0009190E 00.
                                                                             1.0012013E 00,
                                                                                               DATA 236
              257
                     1.0014827E 00.
249
                                                          1.00204336 00,
                                        1:0017633E 00,
                                                                             1.0023228E 00.
                                                                                              DATA 237
250
              258
                                                          1.0031610E 00,
1.0042850E 00,
                                                                             1.8034413E 00, DATA 238
                     1,00260216 00,
                                        1:0028814E 00:
251
                     1.0037220E 00,
                                        1.0040033E 00.
                                                                             1.0045672E 00/
                                                                                              DATA 239
                     A (RSUN 11: 1:109,144)/
1.0048495E 00, 1.005131
252
                  ATA (RSUN
                                                                                               DATA 240
253
              261
                                        1,0051315E 00,
                                                          1,0054128E 00,
                                                                             1.8056929E 00,
                                                                                               DATA
                                                                                                    241
254
255
                     1,0059716E 00.
              262
                                        1:0062486E
                                                    000
                                                          1+0065234E
                                                                       000
                                                                             1.8067957E 00:
                                                                                               DATA 242
              263
                                                          1.0075957E
                     1.00706535 00,
                                        1:0073321E
                                                    000
                                                                       00.
                                                                             1.9078560E 00, DATA 243
                     1,0081130E 00,
256
              264
                                        1:0083655E 00,
                                                          1,00861646 00.
                                                                             1.0088629E 00,
                                                                                               DATA 244
              265
                                        1:0093456E 00:
                                                          1,00958218 00,
257
                     1.0091059E 00,
                                                                             1.8098155E 00: DATA 245
              266
                      ,0100461E 03,
253
                                                          1.0105002E 00.
                                        1.0102742E 00,
                                                                             1.0107242E 00: DATA 246
259
              267
                      .U109464E 03,
                                        1.0111669E 00.
                                                          1.0113858E
                                                                             1.0116033E 00,
                                                                       00.
                                                                                               DATA 247
260
                                 00,
                                                    00.
              268
                      ,01181916
                                        1:0120329E
                                                          1,01224446 00,
                                                                             1.8124534E 00:
                                                                                               DATA 248
              269
                     1.01265946 00,
                                        1.0128622E 00,
                                                          1.0130614E 00.
                                                                             1.6132567E 00/
                                                                                              DATA 249
                 DATA (RSUN 11) 1111
1.0134478E 00,
262
                                       1:0136345E 00,
                                                                                               DATA 250
              271
                                                          1.0138166E 00,
                                                                             1.6139938E 00, DATA 251
              272
                     1.0141659E 00.
                                                          1.01449495 00.
264
                                        1.0143330E 00.
                                                                             1.8146513E QC, DATA 252
```

```
273
265
                     1.01480256
                                 00.
                                        1.0149485E 00.
                                                           1.01508955 00.
                                                                             1.8152255E 00:
                                                                                              DATA
              274
266
                     1,01535686
                                  00.
                                        1:0154837E 00:
                                                           1,01360568 00.
                                                                             1.0157256E QQ:
                                                                                               DATA
                       01584116
                                 00.
                                        1.0159534E 00;
                                                                             1.0161689E 00:
                                                           1,01606258 00,
                                                                                              DATA
                                                                                                    255
              276
                      ,01627235
                                                           1.01645978
268
                                  00,
                                        1:0163726E
                                                    00.
                                                                             1.0165635E 00.
                                                                      00.
                                                                                              DATA
                                                                                                    256
              277
                      ,0166335E
269
                                        1:0167397E
                                                           1.0168217E
                                 00,
                                                    00.
                                                                       00:
                                                                             1.0168990€ 00.
                                                                                              DATA 257
              278
                                 00 .
                      .0169717€
                                        1:0170393E
                                                           1,0171017E
270
                                                    000
                                                                      00.
                                                                             1.01715865 00,
                                                                                              DATA 258
              279
                 DATA (RSUN (1):1
371
                                        1.0172551E
                                                           1.0172945E 00,
                                                                             1.8173278E 00/
                                                    00,
                                                                                               BATA
                                                                                                    259
272
                                      *181,2161/
1,0173760E
                      ,0173549E
              281
                                                           1.01739118 00.
                                                     00.
                                                                             1.8174002E 00.
                                                                                               DATA 261
                                                          1:0173951E 00.
1:0173239E 00.
              282
283
                      ,0174037E
                                 00,
274
                                        1:0174019E 00:
                                                                             1,6173835E 00,
                                                                                               DATA 262
                      .0173676E
275
                                 00.
                                        1.0173476E 00;
                                                                             1.0172968E 20, DATA 263
              284
                       .0172663E 00.
276
                                        1:01723246 00,
                                                           1.0171951E 00.
                                                                             1.8171544E 00,
                                                                                              DATA 264
277
              285
                      .0171103E
                                 00,
                                                    00.
                                                           1.0170105E
                                        1.0170623E
                                                                       00.
                                                                             1.6169545E
                                                                                          100
                                                                                               DATA
                                                                                                    265
                                                           1+0167593E
                     1,01689418
                                  00,
278
              286
                                        1:0168291E
                                                    00.
                                                                       000
                                                                             1.0166845E
                                                                                          100
                                                                                               DATA 266
              287
                     1, 71660445 00,
279
                                        1:0165189E 00:
                                                           1.0164278E 00.
                                                                             1.0163308E 00.
                                                                                              DATA 267
              288
                      .0162281E 00.
280
                                        1.0161195E 00.
                                                           1.0160051E 00,
                                                                             1.0158847E 00:
                                                                                               DATA 268
                     1.0157588E 00
                                        1:0156277E
                                                           1.0154916E 00,
281
              289
                                                    00,
                                                                             1.0153509E
                                                                                               DATA 269
                                                                                          00/
                 DATA (RSUN $1).1
                                     *217:2521/
1.0150572E
282
                                                                                               DATA
                                                                                                    270
                       .0152060E
283
                                  00,
                                                    00;
                                                           1.0149048E
                                                                             1.0147495E 00,
                                                                       00.
                                                                                               DATA
                                                                                                    271
                     1,01459116
284
              292
                                  00,
                                        1:0144299E
                                                          1,0142660E
                                                                       00 .
                                                     00.
                                                                             1.0140997E 00:
                                                                                                    272
285
              293
                     1.0139307E 00,
                                        1.0137590E 00;
                                                           1.0135846E 00.
                                                                             1.0134073E
                                                                                                    273
                                                                                          00,
              294
                                                           1.0128565E
                                 00.
                                                                      00.
286
                     1,01322696
                                        1:0130434E
                                                    00:
                                                                             1.0126660E
                                                                                               DATA 274
                                                                                         000
              295
                      ,0124718E 00,
287
                                        1:0122736E 00.
                                                           1.01207136 00,
                                                                             1.0118646E 00,
                                                                                              DATA 275
288
              296
                     1,0116534E 00,
                                        1:0114377E 00:
                                                           1.0112174E 00.
                                                                             1.8109922E 00, DATA 276
289
              297
                     1,01076268
                                  00.
                                        1:0105289E
                                                           1.01029125
                                                                             1.0109499E 00.
                                                                                              DATA
                                                     000
                                                                       00.
                                                                                                    277
              298
                                                          1.0093084E 00,
290
                     1.0098054E
                                        1.0095581E 00,
                                 00,
                                                                             1.0090563E 00.
                                                                                              DATA 278
              299
291
                     1.0088035E 00,
                                        1:0085487E 00.
                                                          1 0082927E 00,
                                                                             1.8080357E 00/
                                                                                              DATA 279
292
                 1.0077779E 00.
                                      1.0075191E 00;
              301
                                                           1.0072594E 00,
                                                                             1.8069959E 00,
                      .0067374E 00,
294
              302
                                                          1.0062111 00,
                                        1.0064749E 00,
                                                                                               DATA 282
                                                                             1.0059462E 00,
295
                                                           1.0051420E
              303
                                                    00,
                                                                       00.
                       .0056798E 00,
                                        1.0054118E
                                                                             1.8048702E 00,
                                                                                              DATA
                                                                                                    283
296
              304
                                                           1.0040409E
                     1.0045962E 00,
                                        1.0043198E
                                                     00.
                                                                       00.
                                                                             1.00375935 00,
                                                                                               DATA 284
              305
297
                     1.0034751E 00.
                                        1:0031887E
                                                           1.00290016
                                                                      100
                                                                             1.8026095E gg.
                                                    000
                                                                                               DATA
                                                                                                    285
                     1,0023175E 00,
1.0011429E 00,
298
                                        1:0020244E
                                                           1.0017306E
              306
                                                    00.
                                                                       00.
                                                                             1.0014367E
                                                                                               DATA
                                                                                          00.
                                                                                                    286
299
                                                          1-0005569E 00.
9-9939825E-01.
              307
                                        1:0008495E 00,
                                                                             1.0002653E 00.
                                                                                               DATA 287
                       .9997491E-01,
              308
800
                                         .9968587E=01,
                                                                             9.9911218E=01,
                                                                                               DATA 283
              349
                                         .9854462E=01
801
                       .9882764E-01,
                                                          9,9826308E-01,
                                                                             9.9798301E=01/
                                                                                              DATA 289
                       (RSUN (1), 1=289, 324)/
9770421E=01, 9,9742654E=01,
302
                 DATA
                                                                                               DATA 290
                      (RSUN $1),1
.9770421E-01,
                                                                             9.9687404E-01.
353
              311
                                                          9.9714985E=01.
                                                                                              DATA 291
                      ,9659882E=01,
                                        9.9632394E=01,
9.9522439E=01,
                                                                             9.9577428E=01:
9.9467468E=01:
804
805
              312
                                                          9.9604920E-01,
                                                                                               DATA 292
              313
                      .9549933E-01,
                                                          9,9494953E-01,
                                                                                              DATA
                      .94400346-01,
              314
306
                                         .9412692E=01,
                                                          9,9385480E-01,
                                                                             9.935844588011
                                                                                              DATA
                                                                                                    294
              315
                      .9331616E=01,
                                        7.93050285=01,
307
                                                          9,92787136-01,
                                                                             9.9252713E=01:
                                                                                               DATA
                                                                                                    295
                      .9227043E-01.
              316
                                        9.9201725E=01.
                                                          9.9176774E-01.
                                                                                              DATA
508
                                                                             9.9152210E=01;
                                                                                                    296
                      .91280376-01.
              317
                                        9.9104261E=01,
                                                                             9.90579136=01,
309
                                                          9,90808868-01,
                                                                                              DATA
                                                                                                    297
              318
                       .9035329E=01.
                                                                             9.8969800E=01:
                                        9.9013123E=01,
$10
                                                          9.8991282E-01,
                                                                                              DATA 298
              319
                                        9.8927782E=01,
                                                          9.8907197E-01:
411
                      .8948643E=01,
                                                                             9.8886853Ea01/
                                                                                              DATA
                                                                                                    299
                 D
312
                   ATA (RSUN 61), 1=325, 360)/
                                                                                                    300
                                                                                               DATA
313
                     9
                       .8866748E=01,
                                        9.8846865Ec01.
              321
                                                          9.8827204E-01,
                                                                             9.8807731E=01,
                                                                                              DATA
                      .8788495E-01,
814
              322
                     9
                                        F. 8769521E=01,
                                                          9.87508398-01,
                                                                             9.8732484E=01,
                                                                                              DATA 302
                       .8714487E-01.
815
              323
                                         .8696879E=01.
                                                          9.86796968-01,
                                                                             9.8662978E=01, DATA 303
                     9.86467445-01,
                                        9.8631015E=01.
9.8573554E=01.
                                                          9.8615616E-01,
                                                                             9.8548255E=01,
316
              324
                                                                                              DATA 304
              325
                       .8587074E-01,
817
                                                          9x8560611E-01:
                                                                                              DATA 305
                      .8536475E-01.
                                                          9,8514608E-01,
9,8477183E-01,
              326
                                        9.8525263E=01,
318
                                                                             7.8504504EaQ1/
                                                                                              DATA 306
                      .8494917E-01,
.8461182E-01,
                                        9.8485819E=01.
9.8453770E=01.
619
                                                                             9.8468979E=012
                                                                                              DATA
                                                                                                    307
820
              328
                                                           >+5446717E=Q1.
                                                                             9.8439988E=01.
                                                                                              DATA 308
              329
                                        9.8427591E=01.
                                                          9.84219466-01,
621
                       .8433610E=01,
                                                                             9.8416688E=01/
                                                                                              DATA 309
                      (RSUN 41) (10361 368) / 8411845E-08, 9.8407447E-01,
322
                                                                                              DATA 310
DATA 311
              331
                                                          9.8403522E-01,
                                                                             9.8400104Ea01,
824
              332
                      .8397212E=01,
                                        9.8394869E=01,
                                                                             9.8391918E=01/
                                                          9-83930986-01,
                                                                                              DATA 312
825
826
                       (RAMOON&1) | 1 * 4976302E 00,
                                        1, 361/
4,7512387E
                                                                                                    313
              341
                                                                             5.2314402E 00,
                                                           4.9968311E 00.
                                                                                               DATA
                      ,4541825E 00,
              342
827
                                        5.6660106E 00
                                                                                              DATA 314
                                                          5x8691312E 00,
                                                                             6.8664484E 00,
              343
                      ,2611741E 00.
828
                                                                             5.7867444E=011
                                        1,73401726=01,
                                                           3.7267324E-01,
                                                                                              DATA 315
                      9368982E-01.
              344
829
                                        1:6190137E 00,
                                                          1.2545095E 00.
                                                                             1.4983581E QQ, DATA 316
                      .7472915E 00.
              345
                                        1.9974276E QO.
330
                                                           2.24541676
                                                                       00 .
                                                                             2.4893496E 00,
                                                                                              DATA 317
              346
                                                           3.2019421E
831
                       7290604E
                                 00,
                                        2.9658575E
                                                    00.
                                                                       00.
                                                                             3.4397317E 00:
                                                                                              DATA 318
                                        3.9271554E 00.
4.9207568E 00.
                                                           4 1769437E
              347
                     3.68118245
                                  00.
332
                                                                       00.
                                                                             4.4281858E
                                                                                         000
                                                                                               DATA 319
              348
                                                          5.1555256E 00.
6.0017336E 00.
333
334
                      .6773587E 00:
                                                                             5.3802837E 00,
                                                                                              DATA 320
              349
                      .5951865E 00,
                                         .8016114E 00,
                                                                             6.1981651E 00/
                                                                                              DATA 321
335
                      (RAMOON(!),!*
,10516356-01.
                                                                                              DATA 322
DATA 323
                                        371 721/
3.0796254E=01.
                                                          5.09978325-01,
                                                                             7.18888135-01,
                                                                                              DATA
              352
337
                       3641502E-01,
                                        1,1633521E 00,
2.1394527E 00,
                                                          1.39926788 00.
                                                                             1.6424316E 00 . DATA
338
                     1.89014195 00,
                                                          2.3880269E 00.
                                                                             2.6347300E 00. DATA 325
```

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3.61766825 00: DATA 326
4.62151425 00: DATA 327
              354
                      .8797432E 00,
$39
                                        3.1242367E 00.
                                                            3.36978058 00.
                      .86829588
                                 00,
              355
                                         4:1207569E
                                                     001
840
                                                            4.87283916 00,
              356
                       .8437673E 00,
                                        5.09739725
                                                     00 .
                                                            5.3214568E 00.
41
                                                                               5.7431225E
                                                                                            20. DATA 328
              357
                       94399076 00,
                                                            5,3876061E-02,
342
                                         6.14116315 00,
                                                                               2.5089332E=01, DATA 329
              358
                                                            5.69367766-01,
                       5126591E-01,
                                         6.56933718601
343
                                                                               1.0893738E 00:
                                                                                                 DATA 330
                                        1,5311248E 00;
73,1081/
2,5219102E 00;
                       .3169257E 00.
                                                            1.7905841E 00.
                                                                               2.8328534E
                                                                                                 DATA 331
844
                                                                                            00/
                 DATA
                      . (RAMOON ! 1 ) Is
$45
                                                                                                 DATA 332
                                 00,
846
              361
                       . 2769680E
                                                            2,7677997E QQ.
                                                                               3.8159458E 00,
                                                                                                 DATA 333
347
              362
                       ,2663974E 00,
                                         3.5212923E 00,
                                                            347801590E 00,
                                                                               4.8414252E 00.
                                                                                                 DATA 334
                      .3020390E 00,
.2701191E 00,
348
              363
                                         4.5581450E 00.
                                                            4,80610535 00,
                                                                               5.0437396E 00.
                                                                                                 DATA 335
                                                            5.6931517E 00.
1,9935141E-01.
349
              364
                                         5.4860119E 00.
                                                                               5.8938473E
                                                                                           002
                                                                                                 DATA 336
              365
                     6,09063905 00,
                                         2.8849526E-03,
350
                                                                                                 DATA 337
                                                                               3.9897665E=01.
                      ,03481G7E-01,
851
              366
                                         8.1403319Ec01,
                                                            1.03110588 00,
                                                                                 .2543978E 001
                                                                                                DATA 338
352
              367
                      48289975
                                 00,
                                                            1.9496831E 00,
2.9022324E 00,
                                         1.7151546E 00.
                                                                               2.1854497E
                                                                                            901
                                                                                                 DATA 339
                      .4222133E 00.
553
              368
                                         2,6606523E 00,
                                                                               3.1488257E
                                                                                            00.
                                                                                                 DATA 340
              369
                      .4020940E 00,
854
                                         3.6526813E 00.
                                                            3.9294107E JO.
                                                                               4.1989111E
                                                                                                 DATA 341
                                                                                            00/
855
856
                  DATA (RAMOON&I), I = 4,4661466E 00,
                                        09/144)/
4.7258329E 00,
                                                                                                 DATA 342
              371
                                                                                                 DATA 343
                                                            4x9740116E 00,
                                                                               5.2089195E 00,
                       ,4309224E
                                 00,
857
              372
                                         5.6419003E 00.
                                                            5.8445598E 00,
                                                                               6.0419191E 00,
                                                                                                 DATA 344
              373
                       ,2369873E 00,
                                        1:4938814E=C1:
9:7776783E=C1:
                                                                                                 DATA 345
358
                                                            3.4795834E-01,
                                                                               5.9148612E=011
              374
                      .6127318E-01,
$59
                                                            1.2004608E 00,
                                                                               1.4279667E 001
                                                                                                 DATA 346
                     1.6583610E 00.
2,5812877E 00,
              375
                                                            2.1207116E
360
                                         1.8897231E 00.
                                                                        00.
                                                                               2.3509746E 00,
                                                                                                 DATA 347
              376
$61
                                         2.8134310E 00.
                                                            3.0498600E 00.
                                                                               3.2931904E
                                                                                                 DATA 348
                                                                                            00.
              377
                       ,5454661E 00,
                                                            4 0766084E 00,
362
                                         3.8072241E 00.
                                                                               4.3491130E 00:
                                                                                                 DATA 349
                                                            5.1259891E QQ,
5.9875388E QQ,
              378
                       6185179E 00.
                                         4.8788111E 00.
363
                                                                               5.3587617E 001
                                                                                                 DATA 350
864
                       .5781602E 00,
                                         5.7866865E 00.
                                                                               6.1840982E 00/
                                                                                                 DATA 351
                      1RAMOON(1),1
                 DATA
365
                                                                                                 DATA 352
                                         2,9393846E-01,
366
              381
                                                            4x9590139E-01,
                                                                               7.4420004E=01.
                                                                                                 DATA 353
                      .1979532E-01,
.8363612E 00,
567
              382
                                        1:1425308E 00.
2:0683798E 00.
                                                            1.8710819E 00.
                                                                               1.3032127E 00, DATA 354
2.5258459E 00, DATA 355
$68
                                                            2,2981462E 00,
              334
                       .7529138E 00.
869
                                         2.9817389E 00.
                                                            3,2152213E 00,
                                                                               3.4561872E QQ, DATA 356
              385
370
                       ,7666140E 00,
                                         3.9666994E
                                                            4.23408688 00.
                                                                               4.5038550E QO, DATA 357
                                                     00.
871
              386
                      ,7697158E 00,
                                         5.0259930E 00.
                                                            5.2692279E
                                                                        00,
                                                                               5.4986276E 001
                                                                                                 DATA 358
              387
                       7155458E 00,
872
                                         5.9226393E
                                                                               3.7305373E=021
                                                     00,
                                                            6,1231585E
                                                                         00.
                                                                                                 DATA 359
                                                            6-4101747E=01,
1-3364935E 00,
              388
373
                      .3470964E-01,
                                         4.3513254E501,
                                                                               8.54058325=01.
                                                                                                 DATA
                                                                                                       300
              389
374
                      .0749181E 00,
                                         1:30300418 00.
                                                                               1.7727237E 00/
                                                                                                 DATA 361
                  DATA (RAMOONAL) L
875
                                       181,2161/
2,2430302E 00.
                                                                                                 DATA 362
376
                       ,00892726 00,
                                                            2.47420056 00.
                                                                               2.70299075 00,
                                                                                                 DATA 363
              392
                       ,9311369E
                                 00,
$77
                                         3.1611539E 00.
                                                            3+3958172E 00,
                                                                               3.63753258 00:
                                                                                                 DATA 364
              393
378
                       .8975856E
                                 00,
                                                     00.
                                                            4.4080398E
                                         4.14538286
                                                                        00,
                                                                               4.6707800E 00, DATA 365
879
              394
                       9282366E
                                         5.1760617E
6.0547574E
                                  00,
                                                      00,
                                                            5.4119700E
                                                                               5.6358543E
                                                                                            001
              395
                       .8492687E
                                                            6.2553136E
380
                                  00,
                                                                               1.7084193E-01.
                                                      00.
                                                                         00,
                                                                                                 DATA 367
              396
                      70675146=01,
                                                            7.8380653E-01,
1.6926541E 00,
181
                                         5,7428207E=01,
                                                                               1.00063085 00.
                                                                                                 DATA 368
              397
                      ,2251124E 00,
382
                                         1.4564236E 00.
                                                                               1.9312678E
                                                                                            00. DATA 369
              398
                       .1698179E 00.
                                                            2.04129008 00,
583
                                          4066454E 00,
                                                                               2.8745136E 001
                                                                                                 DATA 370
              399
884
                       .1080173E
                                 00,
                                          .3439743E
                                                     00
                                                            3,5844575E 00,
                                                                               3.8308045E 00/
                                                                                                 DATA 371
                 DATA (RAMOQNE 1), I
4.0830005E 00,
885
386
                                      *257,2521/
4,3392926E 00,
                                                                                                 DATA 372
DATA 373
              401
                                                            4,5963294E 00,
                                                                               4.8499568E 00,
                      .0963652E 00,
.9850426E 00,
.0827090E-01,
387
              402
                                                                               5.2762113E 00:
3.0589129E=01:
                                         5.3331568E 00,
                                                            5.55951518 00,
                                                                                                 DATA 374
$88
              403
                                         6.1883896E 00,
                                                            1.05679556-01,
                                                                                                 DATA 375
389
              404
                                         7.1491343E=01.
                                                            9.2739737E-01.
                                                                               1.1465892E 00.
                                                                                                 DATA 376
590
              405
                        3724804E 00,
                                         1.6041606E 00,
                                                            1.84001508 00,
                                                                               2.0781607E 00:
                                                                                                 DATA 377
                       .3169987E
891
              406
                                  00,
                                                            2.79428628
                                                                               3.03377958
                                         2.55567508
                                                      00.
                                                                                                 DATA
                                                                                            00.
392
                       ,2756019E 00,
              447
                                         3,5211805E
                                                            3.7713235E
                                                                         00,
                                                      00,
                                                                               4.9256763E
                                                                                            100
                                                                                                 DATA 379
                      . 2824392E 00.
                                         4.5385710E 00.
393
              408
                                                            4. 79051095 00.
                                                                               5.9351369E
                                                                                                 DATA 380
                                                                                            100
                      .27051038 00,
(RAMOON(1),1
              409
394
                                         5 4961331E 00,
                                                            5.7127587E 00.
                                                                               5.9220554E 00/
                                                                                                 DATA 381
395
                                       253,2881/
4,4069197E=02;
                    TA
                                                                                                 DATA 382
596
              411
                                                            2,44555076-01,
                                                                               4.46474255-01:
                                                                                                 DATA 383
897
                       51598655-01,
              412
                                         8,6126194E-01,
                                                            1.07624276 00,
                                                                               1.2966868E 001
                                                                                                 DATA 384
598
              413
                     1,5221218€ 00,
                                         1.7516080E 00:
                                                            1.98403095 00.
                                                                               2.2184673E 00,
                                                                                                 DATA 385
199
                     2.45451336 00,
              414
                                         2,6924602E 00.
                                                            2.93325775 00.
                                                                               3.1782449E
                                                                                            000
                                                                                                 DATA 386
                                                            3,9465713E
4,9795740E
              415
                      , 4286695E
                                 00:
400
                                         3.6850542E 00:
                                                                         00:
                                                                               4.2107252E
                                                                                            000
                                                                                                 DATA 387
              416
                      ,473657QE 00,
                                                                        00,
                                         4.73110296 00,
401
                                                                               5.2171577E
                                                                                            00+
                                                                                                 DATA 388
                                                            5.8689904E 00.
3.9027792E-01.
              417
                       4436615E 00.
                                         5.6602625E 00.
102
                                                                               6.0722688E 00:
                                                                                                 DATA 389
              418
                       . 2725906E
403
                                  000
                                          .8911878E=01,
                                                                               5.9451827E=01.
                                                                                                 DATA 390
              419
                 8.0294416E=01,
DATA (RAMOQN(I), I
1,6793917E 00,
                                        1.0160427E 00.
89.324./
1.9055038E 00.
                                                            1.2336641E 00.
404
                                                                               1.45511598 00/
                                                                                                 DATA 391
405
                                                                                                 DATA 392
                                                            2.13283395 00,
                                                                               2.3614058E 00,
                                                                                                 DATA 393
407
              422
                                                     000
                       .5920061E 00,
                                         2.82614225
                                                            3,0657850E 00,
                                                                               3.3129455E 00.
                                                                                                 DATA 394
              423
424
408
                      .5689894E 00.
                                         3.8337922E 00.
                                                            4,10501878
5,15393618
                                                                         00.
                                                                               4.3780752E QO:
                                                                                                 DATA 395
                      .6471311E 00,
                                  00,
409
                                                                               5.3874527E 00.
                                           9068651E
                                                     00,
                                                                         00,
                                                                                                       396
                                                                                                 DATA
              425
410
                                         5.8195753E 00:
                                                            6.02348238 00,
                                                                               6.2232849E pg:
                                                                                                 DATA
                                                                                                       397
                     1.38635358-01.
              426
411
                                         3.3837938E=01,
                                                                               7.4871038E=01, DATA 398
                                                            5.41299108-011
                       .6115013E=01,
                                         1.1783219E 00,
                                                            1.3991898E 00,
                                                                               1.62226528 00.
                                                                                                 DATA 399
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428
413
                      1.86604516 00,
                                          2.0694812E 00.
                                                              2.29233458 00:
                                                                                  2.5153353E QO, DATA 400
              429
414
                      2.74014748 00,
                                          2.9691732E 00.
                                                              3.2052068E 00,
                                                                                  3.4508858E 00/
                                                                                                     DATA 401
                        (RAMOGN61),1:329,360)/
7078709E 00, 3,9758116E 00,
                                                                                                           402
               531
                       ,7078709E 00,
                                                                                  4.5290681E 00.
416
                                                              4,2515137E 00,
                                                                                                     DATA
                       .80139578 00,
417
               432
                                                              5.1092238E 00,
                                          5.0625300E 00.
                                                                                  5.5411507E 00:
                                                                                                     DATA 404
618
               433
                      5,7601268E 00.
                                          5.9691276E 00:
                                                                                  8.7524710E=Q2:
                                                              6.1715399E QQ.
                                                                                                     DATA 405
                       ,8650274E=01,
              434
419
                                          4.87867605-011
                                                              6 4 9 3 5 5 9 Q 4 E - Q 1 ,
                                                                                  9.8469461E2011
                                                                                                    DATA 406
                                                              1.9674179E 00.
2.4617524E 00.
               435
                      1.1214263E 00,
2.0177440E 00,
                                                                                  1.7929743E
                                          1.3428898E 00,
420
                                                                                                     DATA 407
                                                                                               000
               136
                                          2.2406670E
                                                       00,
421
                                                                                                00.
                                                                                  2.6821308E
                                                                                                     DATA
                                                                                                           408
                      2.9039035E 00.
                                                              3.8630717E 00.
4.4007336E 00.
                                          3.1298595E QC.
                                                                                  3.6063074E 00:
4.6759031E 00:
422
               437
                                                                                                     DATA
                                                                                                          409
                       ,8611822E 00,
                                          4.1271425E 00.
               438
423
                                                                                                     DATA 410
424
               439
                      4.9456716E 00,
                                          5.2043709E 00.
                                                              5.4490815E 00.
                                                                                  5.6797009E 00/
                                                                                                     DATA
                      A (RAMOUN(1), 1=36173.8)/
5.8981376E 00, 6.1073686E 00,
425
                  DATA
                                                                                                     DATA
               441
                                                              2.8554449E-02,
                                                                                                           413
426
                                                                                  2.2835802E=01.
                                                                                                     DATA
427
               442
                        .2958504E-01,
                                          6,3374125E=01,
                                                                                                     DATA 414
                                                              8 4 4 2 5 6 1 2 3 E - Q1,
                                                                                  1.8573101E 00/
                  DAYA (BCMOON(1)/1: 1: 36)/
-3.504177E-01, -3.4981264E-01, -3.2096634E-01, -2.7574319E-01,
428
                                                                                                     DAYA
                                                                                                           414
429
               451
                       .1808736E-01, -1.5194868E-01, -6.0866206E-02, -7.8415895E-03, 4585507E-02, 1.3415607E-01, 1.9867473E-01, 2.5580821E-01,
               452
430
               453
431
                                                                                                     DATA
                       .0295043E-01,
               454
                      3
                                          3.3721929E-01.
                                                              3,5565964E-01,
432
                                                                                  3.5569070Ea01.
                                                                                                     DATA
                                                                                                           418
                                          2.9575190E=01,
                                                            2.8759587E-01,
=9.2316551E-02,
               455
                                                                                 1.6476751E=01,
=1.7326909E=01,
433
                        .3572626E=01,
                                                                                                     DATA
434
               456
                      8.1964098E-02, -5.3244849E=03,
                                                                                                     DATA
                     -2.4367787E-01, -2.9945253E=01,
435
               457
                                                                                                     DAYA 421
                                                             -3-3736300E-01, -3.5537043E-01,
               458
                     -3.5293023E-01, -3.3108360E-01;
436
                                                            =2,9223216E-01, =2.3966508E=01,
                                                                                                     DATA 422
               459
437
                     -1.7702647E-01, -1.0789175E-01, -3.5524304E-02,
                                                                                  3.71989715-02/
                                                                                                     DATA 423
                       (BCMOON(1):1: 37, 72)/
.0/73995E-01, 1,7377953E-01,
438
                                                                                                     DATA 424
                                                                                  2.8328986Ea01,
3.4378598Ea01,
               461
439
                                                              2×8306862E-01,
                                                                                                     DATA 425
                       :2197654E-01,
               462
                                          3.4654425E=01,
                                                              3.5449106E-01,
                                                                                                     DATA 425
440
                                                              1.96978846-01,
441
               463
                      3.13384856=01,
                                          2.6371989E=01.
                                                                                  1.1709873E=01,
                                                                                                     DATA
                                                                                                          427
                     2,9202169E=02, -6.0578090E=02,
-2.8285926E=C1, -3.2581789E=01,
                                                                                -2.2161451E-01,
-3.5131675E-01,
442
               464
                                                            -1.4614293E-01,
                                                                                                     DATA
                                                                                                           428
               455
                                                            -3.4875382E-01,
                                                                                                     DATA
443
                                                                                                           429
                                                            8,4809954E-02,
444
               466
                     -3
                       .34616056-01, -3.0089648E-01,
                                                                                -1.2842491E-01,
                                                                                                     DATA
                                          1.4044920Ec02;
2.6527676Ec01;
                                                                                  1.5185374E=01.
3.4573490E=01.
               467
445
                     -5
                       .7930323E-02.
                                                                                                     DATA
446
               468
                      2.12786015=01,
                                                              3-07017725-01:
                                                                                                     DATA
                                                                                                           432
447
               469
                      3.49283086=01,
                                                                                  2.8409574E=01/
                                          3.4584004E=01.
                                                              3.2419069E-01,
                                                                                                     DATA
                                                                                                           433
                                         73,108,/
448
                  DATA (8CHOON(!), !=
2,26398216-01,
                                                                                                     DATA
                                                                                                           434
               471
                                                              6,9734697E-02, =1.9978588E=02,
                                                                                                     DATA 435
450
               472
                     -1.09171086-01, -1.9119447E-01; -2,59919396-01, -3.1056851E-01,
                                                                                                     DATA 436
                                        -3,4852351E=01,
-2,0668045E-01,
631
               473
                     93
                       .40322296-01,
                                                             -3,8641916E-01, =3.8657408E=01,
                     -2.6220855E-01,
               474
                                                            =1,4319651E=01, =7.4719013E=02,
452
                                                                                                     DATA 438
                       .9887602E=03,
               475
453
                                          6.6405879E=02,
                                                              1,3395865E-01,
                                                                                  1.9619737E=Q1, DATA 439
               476
                      2
                        .50670316-01.
                                          2,9497663E=01,
454
                                                              3,2384213E-01,
                                                                                  3.4424893E=01,
                                                                                                     DATA 440
                      3.45599936-01,
                                                              2.9689332E-01: 2.4722946E-01,
2.0130876E-02; =6.8462836E-02,
155
               477
                                          3:2989593E=01:
                                                                                                     DATA 441
               478
                      1,8252949E=01,
                                                                                                     DATA 442
456
                                          1.0551860E=01.
               479
457
                     -1.5405023E-01.
                                        =2.2993773E=01; =2.8989670E=01, =3.2928625E=01/
                                                                                                     DATA 443
                       (BCMOON(1), 1:109,14%)/
4592340E-01, =3,4027692E-01, =8,1490499E-01, =2.7348794E-01,
458
                  DATA
459
                                                                                                     DATA
                                                                                                           445
                        1994179E-01, =1,5788678E-01; =9,0472493E-02, =2.0429779E-02,
               462
460
                     -5
                                                                                                     DATA
                                                                                                           446
                                                              1,61282668-01,
               483
                       9780235E=02,
                                          1:1780615E-01;
                                                                                  2.37769925=011
661
                                                                                                     DATA
                                                                                                           447
               484
                        .84774286-01.
                                          3.1986056E=01.
                                                              3.4084759E-01,
                                                                                  3.46050878-011
462
                                                                                                     DATA 448
               485
                                          3.0610732E=01,
5.1496975E=02,
                      3.34506325-01,
                                                              2,61626565-01,
                                                                                  2.9265960E=01.
463
                                                                                                     DATA
               486
                      1.31568866=01,
                                                                                =1.1859063Ee01:
464
                                                            =3,8544606E=02,
                                                                                                     DATA 450
                                        =2.6491584E=01, =3.1414328E=01, =3.4138386E=01, =3.2692951E=01, =2.9005183E=01, =2.3892176E=01,
                       97803256-01,
465
               487
                                                                                                     DATA 451
                     e3.4518926E-01,
e1.7785324E-01,
               485
466
                                                                                                     DATA 452
                       .7785324E-01, =1.1060465E-01, 
(0CM00N(I), [=1457180,/
,9517403E-02, 1,649003E-01,
               489
                                                            -4.0282830E-02,
467
                                                                                  3.8521659E-02/
                                                                                                     DATA 453
468
                                                                                                     DATA 454
               491
                                                              2,2320013E-01,
                                                                                  2.7320675E=01,
                                                                                                     DATA
               492
                       :1202367E=01,
                                                              3.4686621E-01.
                                                                                  3.3959763E=Q1:
                                                                                                     DATA 456
470
                                          3.3724743E-01.
471
                      3.1514881E=01,
               493
                                          2.7430001F=01,
                                                              2,18803005-01,
                                                                                  1.5118238E-01: DATA 457
                     7.4561046E=02, =7.4103815E=03, =2.4032850E=01.
                                        =7.4103815E=03, =9.0520516E-02, =1.6994493E=01, =2.9618563E=01, =3.4271574E-01, =3.4686447E=01,
               494
472
                                                                                                     DATA
                                                                                                           458
               495
                       .4032850E-01,
473
                                                                                                     DATA 459
474
               496
                     -3.3813104E-01,
                                        =3.0860301E=01.
                                                             =2,6217386E-Q1, =2.8343171E-Q1,
                                                                                                     DATA
                                                                                                           460
               497
                                         2:0444467b-01:
                                                                                  7.6479341E=02:
3.0039474E=01;
475
                     -1.3676956E-01,
                                                              5.97876115-03.
                                                                                                     DATA
                                                                                                           461
                      1.4334350E-01,
                                                                                                     DATA 462
               498
                                                              2.57578146-01,
                      3.3047020E=01.
477
                                                              3,4352882E-01,
                                          3.4553361E=01,
                                                                                  3.2450833E=01/
                                                                                                     DATA 463
                   ATA (BCMOON(1), [+181,216)/
2,87910266-01, 2,35605886-01,
478
                                                                                                     DATA 464
479
              501
                                                              1.70222496-01,
                                                                                  9.51542235=02.
                                                                                                     DATA 465
                       .4295785E-02,
              502
                                                           =1.4759043E-01,
480
                                         -6.8120574E-02,
                                                                                =2.1938676Ee01,
                                                                                                     DATA 466
                        .7872588E-01,
               503
                                         @3.2118061E=01,
                                                             -3.4336431E-01,
                                                                                 #3.4368549En01.
481
                                                                                                     DATA
                                                                                                          467
                     -3.22760976-01,
-9,50239956-02,
                                        -2.8332749E-01.
                                                            -2.2931269E-01:
4.93606578-02:
               5u4
5u5
                                                                                91.6515347Fa011
482
                                                                                                     DATA
                                                                                  1.181401,6=01.
483
                                                                                                     DATA
                                                              2.84248106-01.
3.32128028-01.
                                                                                  3.1904392E=01, DATA
3.0177477E=01, DATA
                      1.8161708E-01.
3.3985507E-01.
                                          2:37697836-01;
484
               506
                                                                                                     DATA 470
              507
485
                                          3 4468359E-01
               508
                      2,5447574E-01.
                                                              1.18894356-01,
                                                                                  3.8112095E=02, DATA
486
                                          1.9240597E=01.
```

```
487
                    =4.5268162E=02, =1.2536554E=01, =2.0032396E=01, =2.6253565E=01/ DATA 473
                  DATA (BCMOON(1), 1 = 217, 252)/
468
                                                                                                DATA 474
                                                                                                             6
489
                      ,0893635E-01, =3.3641815E-01, =3.4329552E-01, =3.2963094E-01,
                                                                                                DATA 475
490
                    -2.9721813E-01, -2:4918571E-01, -1.8939122E-01, -1.2184167E-01, DATA 476
491
              513
                    =5.0293401E-02,
                                        2.1938856E=02,
                                                          9,20057385-02,
                                                                              1.57443246=01, DATA 477
                       1404570E-01,
492
              514
                                        2.6573784Eq01.
                                                           3.0448588E-01,
                                                                              3.4028416EeQ1, DATA 478
493
              515
                       41247556-01,
                                                           3.1307739E-01,
                                                                              2.73042556-011
                                        3.3582065E=01,
                                                                                                     479
494
              516
                     2,16944456=01,
                                        1.47323065-014
                                                           6,79992938-02, -1.6367139E-02,
                                                                                                DATA 480
495
                                       =1.7814080E=01, =2.4479156E-01, =2.9578882E=01,
              517
                                                                                                DATA 481
              518
496
                    -3,2797210E-01, -3,3976921E-01, -8x3131040E-01, -3.9425745E-01,
                                                                                                DATA 482
497
                    -2.6139604E-01, =2.0614073E-01; =1.4210513E-01; =7.2810347E-02/ DATA 483
                      (9CMOON(1),1=253,288)/
53011246-03, 6.876398
498
              521
                                        6.8763989E=02
                                                           1.85395716-01,
499
                                                                             1.9594518Ee01,
                                                                                                DATA 485
500
              522
                     2,48200005-01,
                                                           3.1980846E-01,
                                        2.90116115=014
                                                                              3.8558988E=01/
                                                                                                DATA 486
                     3,3606740E=01,
501
              523
                                        3,2029201E=01,
                                                           2,87945198-01,
                                                                              2.4953849Ea01,
                                                                                                DATA 487
                      ,7650401E-01.
                                        1:0184849E=01;
502
              524
                                                           1,92241876-02, =6.61594966-02,
                                                                                                DATA 488
                      ,48364365-01, -2,2122541E-01,
$03
              525
                                                          -2.79160186-01,
                                                                             =3.1800406E=01:
                                                                                                DATA 489
              526
                      .35615956-01, -3.3203035E-01,
                                                          #3.0911029E-01, #2.6989017E#01, DATA 490
304
              527
505
                    -2.1790470E-01,
                                       -1.5671220Ec01,
                                                          -8,96579286-02,
                                                                             =1.9814183E=02, DATA
                                        1:1711128Es01.
3:1110939Ec01.
506
              528
                                                           1,7905745E-01.
                     4.99893436-02.
                                                                              2.5346929EeQ1.
                                                                                                DATA 192
                     2.7814746E-01,
907
                                                           3,3067390E-01,
                                                                              3.4555861E=01/
                                                                                                DATA 493
908
                  DATA (BCMCON(1), 1=289, 324)/
3,2497394E=C1, 2,9869535E=C1,
                                                                                                DATA
                                                                                                     494
              531
                                                           2,5711974E-01,
                                                                              2.0132779E=01,
                                                                                                DATA 495
                     1,3318657E-01,
1.8975984E-01,
3,3438325E-01,
                                        5.5506286E=02, =2.7787193E=02, =1.1157809E=01,
2.5586670E=01, =3.0413592E=01, =3.3070230E=01,
3.1666411E=01, =2.8084765E=01, =2.3104577E=01,
910
              332
                                                                                                DATA 496
                                       =2.5586670E=C1.
              533
                                                                                                DATA 497
512
513
              534
                                       =3.1666411E-01;
                                                                                                DATA 498
              535
                                                          =3.6203457E-02.
                    -1.7133250E=01, =1.0534315E=01,
                                                                              3.3364578E=02,
                                                                                                DATA 499
314
              536
                     1,0088657E-01,
                                        1.6400203E=01,
                                                           2,2039108E-01,
                                                                              2.6777709E=01:
                                                                                                DATA 500
715
              537
                                                                              3.2939414E=01.
                     3.0400859E-01.
                                        3.2720672E=01,
                                                           3.3594293E-01,
                                                                                                DATA 501
                       .07425935-01,
516
              538
                                        2.7058656E=01,
                                                           2-20042296-01,
                                                                              1.5751979E=01, DATA 502
              539
                     8
                      .5320429E-02,
                                        6.4379895E=03, =7.5251195E-02, =1.5483749E=01/ DATA 503
                    TA (BCMOON(1):1:325,360)/
-2.2646593E-01, =2.8389494E=01, =3.2161365E-01, =3.3621324E=01,
518
                                                                                                DATA 504
              541
719
                                                                                                DATA 505
$20
              542
                    -3,2730348E-01, -2,9737677E-01, -2,5073808E-01, -1.9221290E-01, DATA 506
521
              543
                                                           1 $8580524-02,
                    -1.2424814E-01, -5.6556083E-02,
                                                                              8.2494835E=02, DATA 507
              544
522
                     1.47129286-01,
                                        2.0562548Ec01.
                                                           2,55835746-01,
                                                                              2.9560550E=01, DATA 508
              545
                      ,2289137E=01,
                                                                              3.1573907E=01.
1.0765845E=01.
$23
                                        3.3597425E=01,
                                                           3.83711168-01,
                                                                                                DATA 509
924
              546
                       .8255310E=01.
                                        2.3544210E=01,
                                                           1.76336146-01,
                                                                                                DATA
                                                                                                     510
                       .2261626E-02, =4.6521802E-02;
                                                         -1.2474621E-01, -1.9773968E-01, DATA 511
525
              547
              548
526
                       6018808E-01, =3.0662931E-01, =3.8244927E-01, =3.8511016E-01,
                                                                                               DATA 512
                    -3.1495454E-01, -2.7502482E-01, -2.2001056E-01, -1.5499385E-01/
927
                                                                                               DATA 513
                 DATA (BCMOON(1), 1=361,368,/
328
                                                                                                DATA 514
                    -8,4575102E-02, =1,2528067E=02,
529
                                                           5.8163216E-02,
                                                                              1.2508884E=01, DATA
                                                                                                     515
                                                           2-$2889326-01,
$30
                     1.86162848-01,
                                        2:3941814E=01;
                                                                              3.3461320E=01/ DATA 516
                 DATA (RMOON (1):1:
5:90993986 01,
                                        1, 361/
5,9615105E 01,
531
                                                                                                DATA 516
932
                                                           6x0216896E 01,
                                                                              6.8872860E 01:
                                                                                                DATA 517
                      ,1340197E 01,
                                                           6.2711267E
6.3230633E
533
              562
                                        6:2169731E
                                                                        01.
                     6
                                                    012
                                                                              6.8118868E
                                                                                          01: DATA 518
534
              563
                       3355391E 01,
                                        6.3396008E 01,
                                                                              6.2865290E
                                                                       01.
                                                                                          01, DATA 519
                      .2322363E 01.
.9299847E 01.
              564
565
735
736
                                        6.1639649E 01.
5.8625445E 01.
                                                           6-0867949E
                                                                              6.8067029E
5.7728540E
                                                                                                DATA
                                                                                           01.
                                                                                                      520
                                                           5.8091560E
                                                                        01,
                                                                                          011
                                                                                                DATA
                                                                                                     521
937
                      ,7546307E 01,
              566
                                        5.7535336E 01,
                                                           5x7671435E
                                                                       011
                                                                              5.7922897E 01, DATA 522
                      .8257626E 01.
538
539
                                                           5.9079391E
6.1051414E
              567
                                        5.8649204E 01,
                                                                       911
                                                                              5.95382858
                                                                                          01. DATA 523
              568
                                                                              6.1582510E
6.3313697E
                                                                       01:
                                        6:0527708E 01.
                                                                                          01: DATA 524
                                                           6,3001944E
940
              569
                       .2102891E 01,
                                                                       01,
                                        6.2586685E
                                                     01,
                                                                                          01/
                                                                                                DATA 525
                 DATA (RMOON $1),1*
6,34877886 01,
                                        37. 721/
6.3494959E 01/
541
                                                                                                DATA 526
              571
                                                           6.83147126 01,
                                                                                          01.
                                                                              6.2938708E
                      ,2373525E 01,
543
              572
                                        6.1642518E 01,
                                                           6.0786410E Q1,
                                                                              5.9862084E 01, DATA 528
544
              573
                      .8939026E 01,
                                        5.8093012E 01.
                                                           5,73971115
                                                                              5.6911129E 01:
                                                                                               DATA 529
                                                                       01.
                      .6671930E 01,
              574
                                        5.66877788
                                                                       01:
945
                                                           5,4938361E
                                                     012
                                                                              5.73811615 Q1: DATA 530
546
547
              575
                     5.7961290E 01:
6.0645442E 01:
                                        5.8622023E
6.1246445E
                                                           5.9313213E
6.1792935E
                                                                              5.9996254E
6.2712738E
                                                                                           01:
                                                                                               DATA
                                                                                                     531
              576
                                                                                           01.
                                                                                                DATA
                                                                                                      532
348
              377
                                                           6, $566229E
                     6.3078056E 01,
                                                                        01,
                                                                              6.3653142E
                                        6.3367861E Q1.
                                                                                          01.
                                                                                                DATA 533
                       36059386 01,
949
              578
                                        6.3407603E 01;
                                                           6.30405296 01.
                                                                              6.2500392E 01, DATA 534
                     6.1794801E 01,
A (RMOON (1), 1 = 5.8053329E 01,
                                                           5.9999443E
950
                                        6.0947343E 01,
                                                                              5.9010187E Q1/
                                                                       01.
                                                                                               DATA 535
551
352
                  DATA
                                        73,1081/
5,7210728E 01,
                                                                                                DATA 536
              581
                                                           5,4562014E 01,
                                                                              5.6171759E 01, DATA 537
              582
953
                       .6077340E 01.
                                        5.6281630E 01,
                                                           5 6753275E 01,
                                                                              5.7434422E Q1.
6.0843724E Q1.
                                                                                          DATA DATA
                                                           6-0015723E 01.
6-2737653E 01.
554
              583
                     5.8232946E 01,
                                        5.9133142E 01.
                                                                                                DATA 539
                      ,1384424E 01,
555
              584
                     6
                                        6.2218227E 01,
                                                                              6.8143464E 01, DATA 540
                      3440537E 01.
956
              585
                     6
                                                                                               DATA 541
                                                           6,37263528
                                                                              6.3716409E 01,
6.2496506E 01,
                                        6.3634049E 01,
                                                                        01:
                                                           6x2996524E
557
              586
                                                                        011
                                        6.3361033E 01,
                                                                                               DATA 542
              587
                       .1859732E
558
                     6
                                  01,
                                        6.1095322E
                                                     01.
                                                           6.02264136
                                                                       01,
                                                                                           01: DATA
                                                                              5.9292744E
                                                                                                     543
359
              588
                                                                              5.6217335E 01, DATA
5.7038358E 01/ DATA
                                                           5.8736166E 01,
5.6408478E 01,
                                        5.6040833E 01.
```

	D.A	74 (BHOON (		480-4441						D. T.		
12	591	74 (RMOON 6	1711	109,144)/ 5,8806589E	01,	5,97950158	01,	6.9728693E	01.	DATA	546 547	
3	592	6.15821086		6.2307301E	01,	6,2883209E		6.4303223E		DATA	548	
4	593	6.35717416		6.3700226E		6,37032486	01,	6.3595081E				
5	394	6.33872506			01,	6.26979856		6.2219923E				
6	595	6,16524386		6,0999751E	01,	6.0270730E		5.94869416				- 1
7	590	5.86829368		5.7907761E		5.7222107E				DATA		
8	597				01,			5.4691949E	011	100		
	598	5,63786048		5:63270188	01,	5.05555115		5.70505195	011	DATA		
9	599	5,77682408	01,	5.8642511E		5.95960335		6.85515825	010	DATA		
0		6.14408386		6,2209950E	011	6.2855059E	01,	6.3257208E	01/			
1	601	TA IRMOON	1741=	4 7801 4875		4 92194746	0.4	4 77.44005		DATA		-
2		6,35110686	0.1	6.3591953E	5-147 - 11-T	6.3517631E		6.4311609E		DATA	The second second	
3	602	6.29995138		6.2605860E	011	6-3151559E		6.1652301E	01.	DATA		
4	643	6,1118694		6:0557652E	014	5+99752115		5.9380131E		DATA	559	
5	604	5,87876005		5:8555053E	01.	5,97178366		5.7317462E	01.	DATA	-	
6	605	5,70661268		5.7004045E		5.7157651E		5.7538314E		DATA		
7	536	5,81089335		5.8845493E		5,9683004E		5.85538825	011	DATA	542	_
8	647	6,1390541		6.2132683E		6 2732135E	31,		01:	DATA	563	
9	608	6,33869256		6:3423877E	050	6-32793725	01:	6.2977644E	01.	DATA	564	
C	649	6.25513616		6.2037920E	01,	6-14754588	01.	6.9898993E	01/	DATA	565	
1	DA	TA LEHOON	11111	181,2161/	70 70	47000	11 12 13 1		7.7 ×2.77	DATA		
Ž	611	6.03372486	01,	5.9810800E	01,	5,9331986E	01,	5.8906674E	01.			
3	512	5.85374978	C1,	5.8227714E	01.	5.7984610E				DATA		
4	613	5.77564486	01,	5.7810779E		5×8002450€			01,	DATA		10.00
5	614	5.88226498		5.9427481E		6.01202905		6.8853843E	01,	DATA		
6	615	6.15742136		6.2226764E	01,	642761720E	01,	6.3138674E		DATA		
7	616	6.33298036		6.3321811E	ŏi,	6.8116735E	01,	6.2731668E		DATA		
8	617	6.21974308		6.15560995	01,	6.08373738		6.01537895	011	DATA		
9	618	5.94951908		5.8923256E		5.84671426				_		
0	619	5.79463848		5.7872180E			-	5.81413438	01.	DATA		1100
					01,	5,79031055	01,	5.8023291E	01/	DATA	2/2	
1 2	621	5 8220648E	17114		04	E 802E845	0.4	E 40-150-5	0.4	DATA	576	
3	622			5.84886325	-	5,88255015		5.9231505E				
		5,97049945		6.0238589E	01,	6.0816473E		6.1413475E	01.	DATA		
4	623	6,19961056		6.2525274E		6.29600645		6.3261920E	01:	DATA		
5	624	6,33986656		6.3348032E		6.3100492E				DATA		
6	625	6,20514936		6:1307957E		6 4 0 481 667E		5.9634251E		DATA	581	
7	626	5,88323238		5.8139964E		5.7610356E		5.7278349E	01:	DATA	582	
8	627	5,71560616		5.7232946E	01.	5x7480406E		5.7859428E	01:	DATA	583	
9	628	5.83288688		5.8852182E	01.	5,94013368		5.9957663E	01,	DATA	584	
o .	629	6.05101736	01,	6.1052281E	01,	6x1578023E	01.	6.2078718E	01/	DATA	585	
1	UA	TA (RMOON S	1)11:							DATA	586	
2	631	6,25407075		6.2944529E	014	6,3265657E		6.3476566E	01,	DATA	587	
3	632	6,35497168		6:3461098E	01,	0.8193703E		6.2741467E	01.	DATA	588	
4	633	6,2111980	01,	6.1329023E	01.	6-0433661E	01.	5.9483528E	01.	DATA	589	
5	634	5.85495038	01,	5,7709268E	01.	5.7037786E	01.	5.4599986E	01,	DATA	590	
6	635	5.64203076	01,	5.6516419E	01.	5. 6859468E	01.	5.7400856E		DATA		
7	636	5.80790648	01,	5.8830992E	01,	5,96008728	01,	6.8345475E		DATA		
8	637	6,10356378				6,2195895E		6.2657g8gE	011	DATA		der :
9	638	6.30381738	01.	6.3337251E	01,	6.3548501E	01,	6.3661454E	011	DATA	594	
0	639	6.36616268	01.	6.3532382E	01.	6.\$257781E		6.2826215E	01/	DATA	595	
	DA	TA IRMOON	Lile	289.324./	401	****	441	*	41,	DATA		
1	641	6.22344126	61.	6,1491286E	01.	6.0621207E	01,	5.9666119E	04.	DATA	597	
3	642	5.86856238		5.7753970E		5-69531428		5.6361963E		DATA		
4	643	5,60427915				5.63187916						
5	644		01.		01:			5.6874207E		DATA		
	645	5,76316316	01.	5:8513937E	01.	5x9443816E		6.83537305			600	
6	646	6,1191585	01,	6:1922517E	01.	6×2527704E		6.30013215		DATA		
7 8		6,3346631	01,	6:3571893E	014	6x3686516E	01.	6.3697942	120	DATA		
ŏ	648	6,36096676		6:3420551E	01:	6 \$ \$ 1254598		6.2717285E	_		603	
9		6.21902068	01,	6.1543656E		6+0786492E			011	DATA		-
0	649	5.90447046		5.8153012E	071	5 7 7 3 3 4 6 3 1 E	04.	5.66657778	01/	DATA	A SAME TO SAME SERVICE	
1	451	TA LEMOON	1311.	3601/						DATA	606	
2	651	5,62190776	011	5,6050263E	01,	5.61860346		5.66174128			607	
3	652	5,73008088	01.	5,8167031E		5,91341715		6.01205415		DATA		
4	653	6.10545238		6.1880415E		6,2560705E	01,	6.3075605E		DATA		
5	654	6,34207326		6.3603733E		6+3640417E			01.	DATA		
6	655	6,33553496	01.	6.3072065E	014	6x2714274E	01:	6.2289911E	011	DATA		
7	656	6,1802265	01,	6.1252258E	01.	6.06418398	91.	5.99780548		DATA		
8	657	5,92771266	01,	5,8567651E	01.	5x7891735E	91,	5.7303039E	01.		613	
	658	5,68610816	01.	5.6622031E		5.06276105	01.	5.6899102E	01,	DATA		
	659	5.7411800E	01.	5.8135897E	01.	5-9003399E	01,	5.9938620E	01/	DATA		
0	DA	TA (RMOON		361 (368)/						DATA		
0					011	6.247.078E	014	6.29782765	0	DATA		-
0		6.08650176	011	9:1/14042E	W 1 4	0 4 4 9 3 1 4 3 3 4	W 4 F		u	UA ! A	94/	
9 0 1 2 3	662	6.3335635		6:1714042E 6:3499538E	QI,	6.2431035E 6.8480696E	ŎĬ,	6.3301058E	01/	DATA		

```
71084 02 19-03-72
                                11.742
                                                   1976 EPHENERIS
            PREFACE
       PROGRAM BREAK
                               4273
       COMMON LENGTH
       V COUNT BITS
    PRIMARY SYMDEF ENTRY
         YABLE
                                    0
 SECONDARY SYMDEF ENTRY
                            LENGTH
        BLOCK
    1 EPHBLH
                                  11
        SYMREF
  END OF BIMARY CARD #1976#19
 4273 IS THE NEXT AVAILABLE LOCATION.

GMAP VERSION/ASSEMBLY DATES JMPA 110171/102971

THERE WERE NO WARNING FLAGS IN THE ABOVE ASSEMBLY
                                                                                      JMPB 110171/102971
                                                                                                                           JMPC 110171/102971
 .. 19411 WORDS OF MEMORY WERE USED BY SMAP FOR THIS ASSEMBLY.
                                               1977 EPHENERIS
                                11.761
71034 02 11=03=72
                            SUBROUTINE TABLE
                   C+1977*
                                                                                                                                     DATA
                                                                                                                                                5
                                                                                                                                     DATA
                            DIMENSION RASUN (369), DOSUN (369), RSUN (369)
DIMENSION RAMOON(369), DOMOON(369), RECON(369)
                                                                                                                                     DATA
                                                                                                                                                3
                                                                                                                                     DATA
                            DIMENSION ARRAY (2214)
                            DOUBLE PRECISION V
EQUIVALENCE (RASUN, ARRAY), (DCSUN, ARRAY(370)), (RSUN, ARRAY(739))
EQUIVALENCE (RANDON, ARRAY(1108)), (DESCON, ARRAY(1477))
EQUIVALENCE (RMGON, ARRAY(1846))
       6
       9
                            COMMON PHBLK
      10
      11
                            Y(2) # ARRAY(1+1)
Y(3) # ARRAY(1+2)
Y(4) # ARRAY(1+3)
      12
      13
      14
                                                                                                                                                      4
      15
                            RETURN
                                                                                                                                                      5
                            DATA (RASUN (I), I = 4.8917311E 00. 4.9686922E 00.
      16
                                                          1: 36)/
4:9110085E 00:
4:9878638E 00:
                                                                                                                                     DATA
                                                                                                                                                5
                                                                                    4.9302626E 00.
                                                                                                             4.9494911E 00:
                                                                                                             5.8261110E 00. DATA
                                                                                    5.0070040E 00.
                                                                                                                                                8
      18
                                                                                                             5.1021742E 00.
5.1775820E 00.
5.2522402E 00.
      19
                                 5.0451831E 00,
                                                                                    5.0832162E QQ.
                                                                                                                                    DATA
                                                          5.0642187E
                                                                           00.
                            5.0451831E 00,

5.1210911E 00,

5.126320BE 00,

5.2707759E 00,

5.3443616C 00,

5.4170156E 00,

5.4887087E 00,

0.4887087E 00,

0.4887087E 00,

0.4887087E 00,
                                                                                    5,1587965E
                                                                           000
                                                          5.1399656E
                                                                                                     001
                                                                                                                                     DATA
                                                                                                                                              10
      50
                                                          5.2150111E 00;
5.2892570E 00;
5.3626141E 00;
                                                                                    5,2336515E 00,
                                                                                                                                              11
      21
                                                                                                                                     DATA
                                                                                    5.30768228
5.3808076E
      22
                         16
                                                                                                             5.3260508E 00:
5.3989415E 00:
                                                                                                     001
                                                                                                                                     DATA
                                                                           000
                                                                                                     000
                                                                                                                                     DATA
                                                                                                                                              13
                         18
                                                                                    5,4529830E 00.
                                                          5.4350294E 001
                                                                                                             5.4708760E 00.
                                                                                                                                     DATA
      24
                                                                                                                                              14
                                                          5.5064810E 00;
37, 721/
5.5769723E 00;
      25
                                                                                    5.9241930E 00.
                                                                                                             5.5418453E 00/
                                                                                                                                     DATA
      26
                                                                                                                                     DATA
                                                                                                                                              16
                         21
22
23
                                                                                                             5.4118671E QO.
                                                                                    5,5944484E 00,
                                                                                                                                     DATA
                                                                                                                                              17
      27
                                                                                    5 4 6 3 7 8 7 2 E
5 4 7 3 2 2 5 6 3 E
                                 5.6292292E 00,
5.6981281E 00,
                                                                                                             5.6809645E 00:
5.84924215 00:
      28
29
                                                          5.6465356E 00.
5.7152184E 00.
                                                                                                                                              18
                                                                                                     00.
                                                                                                                                     DATA
                                                                                                     100
                                                                                                                                     DATA
                                                                                    5,86673668
                                 5.7661762E 00.
5.8434098E 00.
                                                                                                             5.8166752E 00. DATA
5.8633308E 00. DATA
                                                                                                     00,
                                                          5.7830592E 00:
                                                                                                                                              20
      30
                                                          5.8500966E
                                                                           000
                                                                                    5,9328500E 00.
                                                                                                             5.9492725E 001
                                                                                                                                     DATA
      32
                          26
                                 5.8998803E 00.
                                                          5.9163864E 00;
                                                                                                                                               22
                         27
28
29
                                                                                    5x99330638 00,
6x06319458 00,
6x12762338 00,
                                                                                                             6.9149776E 20: DATA
                                 5,9456552E 00,
                                                          5.9819993E 00:
      33
                                                                                                                                              23
                                 6,0308149E 00,
6,0954590E 00,
                                                                                                             6.0793402E 00;
6.1436719E 00/
                                                          6.0470200E 00.
                                                                                                                                     DATA
                                                                                                                                              24
      34
      35
                                                                                                                                     DATA
                                                                                                                                               25
                                                          6.1115528E 00.
                            DATA (RASUN (1), I = 6,1597001E 00, 6,2236354E 00,
                                                          73.1081/
6.1757092E 00.
                                                                                                                                               26
27
                                                                                                                                     DATA
      36
                                                                                                             6.2074756E 00,
6.2714362E 00;
                                                                                    6.3917006E 00,
6.2555144E 00,
                                                                                                                                     DATA
                         32
      38
                                                          6.2395812E 00;
                                                                                                                                     DATA
                                                                                                                                              28
                                 4.1427033E=03,
6.7734976E=02,
1.3125021E=01,
1.9479514E=01,
      39
                         33
34
                                                                                                             5.18505468c024 DATA
                                                          2.0065742Ee02.
                                                                                    3.59612366-02,
                                                                                                                                              29
                                                          8,3615831E-02,
                                                                                    9,94944296-02,
                                                                                                             1.15372105-01:
                                                                                                                                     DATA
      40
                                                                                                                                              30
                                                                                    1.4301316E-01,
2.2660930E-01,
                                                                                                             1.7890098E=011
2.42532765=011
                         35
                                                                                                                                     DATA
      41
                                                          1.4713013E=01.
                                                                                                                                              31
                                                           2.1069741Ec01.
      42
                          36
                                                                                                                                     DATA
                                                                                                                                               32
                                 2.5846958E-01.
```

2.7442142Ea01,

2-90390136-01,

33

DATA

3.8637690E=01,

		2				2.3					
44	38	3,2238305		.3840983E		3,94458616-		3.7053034E		34	
45	39	3.66626116		0274696E	-01	4.1589357E-	01,	4.4504780E		35	
46	41	4.5126967	171111	6750029E	-01:	4.83760415-	.01.	5.00690776	DATA	36 37	6
48	42	5.1637216		3272523E		5-6911062E=		5.6552901E		38	
49	43	5.8198100		.9846723E		6.14988235-		6.3154484E		39	
50	44	6,48137878		. 64768 4E		6.8143626E-		6.9814339E		40	
51	45	7,1489041		17167814E		7.4850731E-	01.	7.6537827E		41	
52	46	7,8229150		.992472524		8.1624600E=		8.33267695		42	
53	47	8,5037234		6749994E		8,84670376-		9.01883376		43	
54	48	9.1913862		.3643564E		9,53773858		9.71192686	DATA	44	
55 56	49	9.8657143		.0060293E	001	1,02352568	00,	1.9410593E	DATA	45	
57	51	1.0586276	00.	.0762356E	00,	1.0938763E	00.	1.1115509E		47	6
58	52	1.12923366		.1469986E	00;	1.16476996	00.	1.1825720E	QO. DATA	48	
59	53	1,24040426		.2182657E	00.		00.	1.2540728E	DO. DATA	49	
60	54	1.2720162		:2899848E	00		001	1.8259933E	DO. DATA	50	
61	55	1,3440302			00.		00.		DO. DATA	51	
62 63	56 57	1,41636186			00.		00.	1.47075546	DO DATA	52	
64	58	1.5615339		.5796899E	00.	1,59784136	00.	1.5433753E	DO: DATA	53 54	
65	59	1.6341236		6522511E	00,		00.	1.6884704E	DO/ DATA	55	
66		TA TRASUN							DATA	56	6
67	61	1,70655968	00, 1	.7246334E		1-74269018		1.7607285E	DO. DATA	57	
68	62	1,7787475		.7967456E		1,81472215		1.8326755E	DO: DATA	58	
69	63	1.8506045		1.8685080E	001		00.	1.90423375	DO: DATA	59	
70	65 65	1,9220531		1.9398419E	00.	1.95759878	00,	1.9753222E 2.8458573E	DO DATA	60	
7 <u>1</u> 72	66	2.04339546		2:0106640E 2:0808930E	00.		00.	2.1157633E	DO: DATA	61	
73	67	2.1331345		1504623E		2.16774616		2.1849857E	DO. DATA	63	
74	68	2.2021810		2.2193316E			00.	2.2534987E	QO. DATA	64	
75	69	2.2705153	00, 2	212874878E		2.30441665	00.	2.3213019E	DO/ DATA	65	
76		TA LRASUN	11111821				_		DATA	66	6
77	71	2,3381441	00,	,3549436E		2.37170105	00.	2.38841635	DG. DATA	67	
78 79	72 73	2.40509000		2:4217224E 2:4878443E	00.		00,	2.45486435	DO: DATA	69	
80	74	2.5170167		5533297E	00,		00,	2.5858420E	DO: DATA	70	
81	75	2.6020426	00,	2,6182072E	00.	2.63433646	20.	2.65043135	DO. DATA	71	
82	76	2.6664923		6825219E	00.	2.69851968	00.	2.7144872E	QO. DATA	72	
83	77	2,7304260		2.7463376E	00.	2.76222355	00.	2.77608515	DO . DATA	73	
84	78 79	2,7939240		2.8097416E	00.	2-82553965	00.	2.8413191E	DATA	74	8.1
86		2.85708168 TA (RASUN		2.8728285E	00,	2.5885605	00,	2.9042800E	DATA	75 76	6
87	81	2.9199873		9356637E	00,	2,9513707E	00,	2.9670493E	DO. DATA	77	0
88	82	2.9827206	00, 2	9983859E	00.	3.0140463E	00.	3.9297032E	QO. DATA	78	
89	83	3.0453577	00,	0610110E	00,	340766643E	00.	3.8923190E	DO. DATA	79	
90	84	3.1079763		:1236378E	00,	3413930485	00,	3.1549789E	DO DATA	80	
91 92	85 86	3,1706619	00,		00,		00,	3.2177828E	DO DATA	81	
93	87	3.2335197		3:2492746E 3:3125079E	00.	3+26504925 3+32837755	00.	3.2808493E 3.3442748E	DO DATA	82 83	
94	88	3,3602009	00,		00,		00.	3.4081665E	DO. DATA	84	
95	69	3.4242217	00, 3	5.4403123E	00,	344564396E	00.	3.4726045E	00/ DATA	85	
96		TA CRASUN	1111128	19,3241/					DATA	86	6
97	91	3,4888082	00,	.5050515E	00,		00,	3.5376607E		87	
98 99	92	3.5940286					00:	3.60339875	DO DATA	88	
.00	94	3,6199482		1.6365464E 1.7034526E	00,	3.6531946E 3.7203138E	00.	3.6698942E 3.7372311E	OO: DATA	89 90	
01	95	3.7542055		7712379E	00.		00,	3.8054800E	DO: DATA	91	
02	96	3.8226911		8399629E	00.		ŏŏ;	3.8746913E	DO! DATA	92	
03	97	3.8921485	00, 3	. 9096679E	00;	3,9272499E	00.	3.9448943E		93	
104	98	3.9426008		9803689E		3,99819826			DO: DATA	94	
05	99	4.0340381		.0520476E	00.	4.07011608	00,	4.08824325	OO/ DATA	95	520
06	101	1,1064287	00.	12467216	00	4,14297316	00,	4,16133126	DATA	96 97	6
08	102	4,1797458	00,	1982163E	00,		00,	4.23532156	DO: DATA	98	
09	103	4,2539545	00,		-		00.	4.31ñ1622E		99	
10	104	4,3289969	00,		00.		00.		DO: DATA		
111	105	4.4047908	00,	4238446E	00 .	4.44293735	00.	4.46206626	DO. DATA	101	
112	146	4,4812289	00,	1.500422BE	00.	4.51964535	00.	4.5388938	DO: DATA	102	
113	107	4,5581654	00, 4	.5774575E	00.		00.	4.61609245	DO: DATA		
114	108	4.6354307					00,	4.4939015	DO: DAYA		
115	109 DA	4.71286931	00,	1.7322389E	004	4.95160785	001	4.77097375	DATA	102	
B 6.5		IDRAYO		4128411					VAIA	700	6

```
117
              111
                     4,79033458 00,
                                       4.8096877E 00.
                                                         4.82903128 00.
                                                                            4.8483628E 00, DATA 107
118
                     4.8476803E 00,
                                                         4.9062641# 00.
              112
                                       4.8869814E 00,
                                                                            4.9255262E 00/
                                                                                             DATA 108
119
                 DATA
                      (BCSUN (1): 1: 1, 36)/
(0323514E-01, =4,0190655E-01, -4,0044433E-01, -3,9884920E-01,
                                                                                             DATA
                                                                                                  108
                                                                                             DATA
                                                                                                  109
121
              122
                      9712198E-01:
                                      =3.9526349E=01, =3.9327455E-01, =3.9115615E=01,
                                                                                             DATA
             123
                                     -3.8653490E-01, -3.8403411E-01, -3.8140811E-01,
                   -3
                      ,8890925E-01,
122
                                                                                             DATA 111
              124
                   -3,78658065-01, -3,7578528E-01, -3,72791098-01, -3.6967704E-01,
                                                                                             DATA 112
123
124
             125
                   =3,6644460E=01, =3:6309536E=01; =3:5963096E=01; =3:5605309E=01;
                                                                                             DATA 113
                      5236342E-01, -3.4856368E-01; -3.4465563E-01; -3.4064101E-01,
125
                                                                                             DATA 114
                   e3
126
                   -3.3452155E-01, -3.3229908E-01, -3-2797946E-01, -3.2355253E-01,
                                                                                             DATA
$27
              128
                   -3,1903215E-01, -3,1441621E-01, -3,0970666E-01, -3.0490537E-01,
                                                                                             DATA
                                                                                                  116
128
                   -3.0001421E-01; -2.9503520E-01; -2.8997017E-01; -2.8482112E-01/
                                                                                             DATA 117
129
                 DATA (BOSUN 11) 14 37. 72)/
=2.7958983E=01, =2.7427824E=01, =2.6888824E=01, =2.6342174E=01,
                                                                                             DATA 118
              131
                                                                                             DATA
                                                                                                  119
             132
131
                   -2.5788066E-01, -2.5226694E-01, -2.4658257E-01, -2.4082963E-01,
                                                                                             DATA 120
              133
132
                      3501018E-01, =2.2912637E-01, =2.2318023E-01, =2.1717392E-01,
                                                                                             DATA
                                                                                                  121
                   -2.1110955E-01.
                                     -2.0498922E=01, -1.78881502E-01,
-1.7998943E=01, -1.7362007E-01,
133
                                                                          =1.9258895EG011
                                                                                             DATA
              135
                   -1.8631307E-01.
                                                        -1.7362007E-01, -1.6720498E-01,
                                                                                             DATA 123
              136
135
                   -1,6075216E-01, -1.5425758E-01,
                                                        =1 +4772521E-01, =1.4115700E=01,
                                                                                             DATA 124
                   -1,3455486E-01, -1.2792072E-01,
                   -1,3455486E-01, -1.2792072E-01, -1.2125650E-01, -1.1456398E-01, -1.0784497E-01, -1.0110125E-01, -9,6334570E-02, -8.7546673E-02,
              137
136
                                                                                             DATA 125
             198
137
                                                                                            DATA 126
             139
                   -8.07392976-02, =7.3914197E=02, =6.7073090E-02, =6.9219883E=02/
138
                                                                                             DATA 127
                   TA (BCSUN (1), 1= 73, 108,/
-5, 3350442E-02, -4,6472642E=02;
                 DATA
                                                                                             DATA 128
139
              141
140
                                                       -3,9586323E-Q2, -3.269341QE-Q2,
              142
                   -2,5795778E-02,
                                     8.6984821E=03;
                                                        -1.1993797E-02, -5.8931252E-03:
141
                                                                                             DATA 130
              143
142
                    1.80490715-03,
                                                         1,55857668-02,
                                                                            2.2464985E-02,
                                                                                             DATA 131
                    2.93343626-02,
              144
143
                                                         4.80365036-02.
                                       3.6192120E=02,
                                                                            4.9865763E=02, DATA 132
                      .6678171E-02.
144
              145
                                       6.3472006E=021
                                                         7.02455325-02.
                                                                            7.4997137E=02: DATA 133
145
              146
                                       9.0428124E-02,
1.1695723E-01,
                                                         9-71042988-02,
                                                                            1.6375224E=01, DATA
                                                                                                  134
             147
146
                                                                            1.30030695-01,
                    1.1037040E-01,
                                                         1.23511236-01,
                                                                                             DATA 135
             148
147
                    1,3651395E-01.
                                                         1.4936523E-01,
                                                                            1.5572986E=01,
                                       1,4295935E=01,
                                                                                             DATA 136
             149
                                     1.6832858E=01,
148
                    1.6205153E=01,
                                                         1.74559318-01,
                                                                            1.8074209E=01/
                                                                                             DATA 137
149
                 DATA (BCSUN (I) . I .
                                                                                             DATA 138
150
              151
                    1.86875235-01,
                                       1.9295705E=01,
                                                         1,98985888-01,
                                                                            2.8496006E±01,
                                                                                             DATA 139
151
              152
                    2,1087795E-01,
                                       2.1673793EG01,
                                                         2-2253832E-01.
                                                                            2.28277525=01.
                                                                                             DATA 140
                      .3395388E=01,
                                                                            2.50509905-012
                                                                                             DATA 141
152
              153
                    2
                                       2,3956580E=01,
                                                         2.45111666-01:
153
              154
                    2.5599902E-01,
                                                                            2.71796665=01:
                                       2.6135750E=01,
                                                         2.46603808-01,
                                                                                             DATA 142
             155
154
                    2,7691444E=01,
                                       2.8195598E-01.
                                                         2.86919726-01,
                                                                            2.91804275=01,
                                                                                             DATA 143
              156
155
                     2.96608115-01,
                                       3:0132977E=01.
                                                         3.05967856-01.
                                                                            3.10520825=011
                                                                                             DATA 144
             157
                      ,1498722E-01,
156
                                                         3.23654656-01,
                                                                            3.2785289E-011
                                       3.1936563E=01,
                                                                                             DATA 145
157
158
              158
                     3,3195899E=01,
                                                         3-3988937E-01,
                                                                            3.4371100E=01,
3.9801030E=01/
                                        .3597162E=01,
                                                                                             DATA 146
                    3.4743516E-01,
                                       3.5106059E=01,
                                                         3-54586056-01,
                                                                                             DATA 147
                    A (BCSUN (I), [ = 145, 180) / 3,6133211E-01, 3,6455037E-01,
159
                                                                                             DATA 148
             161
160
                                                                                                  149
                                                         3,4766387E-01,
                                                                            3.7067154E=01,
                                                                                             DATA
             162
                      .7357227E=01,
                                                                            3.8162318E-01, DATA 150
161
                                       3.7636510E=01,
                                                         3-79049016-01,
             163
162
                      ,8408673E=01,
                                       3.8643884E=01,
                                                         3.88678705-01.
                                                                            3.9080553E-01, DATA 151
              164
                      ,9281856E-01,
163
                                       3.9471700E001,
                                                         3.96500238-01,
                                                                            3.9816748E=011
                                                                                             DATA 152
             165
                    3.9971815E-01,
4.0474481E-01,
                                                                                             DATA 153
                                       4:0115169E=01,
                                                         4.02467625-01.
                                                                            4.8366546E=011
164
165
              166
                                       4.0570527E=01,
                                                         4-0654658E-01,
                                                                            4.6726841Ea01, DATA 154
             167
166
                      .0787053E=U1,
                                                         4-08714966-01,
                                       4,0835276E=01,
                                                                            4.8895705E=01.
                                                                                             DATA 155
                      .0907896E-01,
167
             168
                                       4.0908064E=01.
                                                         4-08962156-01,
                                                                            4.8872354E-01,
                                                                                             DATA 156
             169
168
                      .0836496E-01,
                                       4.0788655E=01.
                                                                            4.8657147E=01/
                                                         4.67288635-01,
                                                                                             DATA 157
                 DATA (BCSUN (1), [+181, 216)/
169
                                                                                             DATA 158
170
171
                     4.0573536E-01,
4.0120998E_01,
                                       4.0478077E=012
                                                         4.0370803E-01.
3.9824504E_01.
                                                                            4.0251760E=011
3.9658885E=011
                                                                                                  159
              171
                                                                                             DATA
                                       3.9978562E_DI
                                                                                             DATA
                                                                                                  160
              173
                      ,9481767E=01,
172
                                       3.9293222E=01,
                                                         3.90933296-01,
                                                                                             DATA 161
                                                                            3.8882164E-01,
             174
173
                      .8659820E-01,
                                       3.8426384E-01,
                                                         3-8181951E-01,
                                                                            3.79266216-011
                                                                                             DATA
                                                                                                  162
              175
174
                      .76604925-01,
                                       3.7383672Eq01.
                                                         3.7096263E=01,
                                                                            3.6798382E=011
                                                                                             DATA
175
              176
                      ,6490136E=01,
                                                                            3.55043885-011
                                       3.6171645E=01,
3.4797560E=01,
                                                         3,58430226-01,
                                                                                             DATA 164
176
              177
                                                         3144296235-01,
                                                                            3.4052168E=01,
                                                                                             DATA 165
177
              178
                      .3665327E-01,
                                                                            3.2449783E=011
                                       3,3269231E301,
                                                         3-28640076-01.
                                                                                             DATA 166
             179
                                      3,1594848E=01,
217,252)/
                                                         3.1154386E-01,
                                                                            3.07054396-01/
178
                                                                                             DATA 167
                      .20266885=01,
                 DATA (BCSUN 11):1:
3.0248143E-01;
179
                                                                                             DATA 168
              181
                                       2.9782637EG01
180
                                                         2-93090596-01,
                                                                            2.8827556E=01.
                                                                                             DATA
181
                      ,8338280E=01,
                                       2,7841378E=01.
                                                         2.73370025-01,
                                                                            2.6825308E=01.
                                                                                             DATA
                                                                                                  170
             183
                      .6306451E-01,
                                                                            2.4708446E=01/
182
                                       2.5780584EG01,
                                                         2x5247862E-01,
                                                                                             DATA 171
              184
183
                     2.4162496E-01,
                                                         2.80316196-01.
                                       2,3610167E=01;
                                                                            2.2487003E001, DATA
                                                                                                  172
              185
                      ,1916479E=01,
                                       2:1340203E=01,
                                                         2.07583406-01,
                                                                            2.81710375-01, DATA 173
184
185
              186
                    1,95784556-01,
                                                         1,8378063E-01,
1,5920514E-01,
                                                                                             DATA 174
                                       1.8980746EG01,
                                                                            1.7770554E=01:
                                                                            1.5295141E-01:
              187
                      .71583668-01,
186
                                       1.6541639E=01,
                                                                                             DATA
187
              188
                      4665665Ec01,
                                                         1.3394998E-01.
                                                                            1.27541125-01,
                                       1.4032235E=01,
                                                                                             DATA
                                                                                                  176
             189
188
                      .2109733E=01,
                                       1.1462019E=01,
                                                         1-08111295-01,
                                                                            1.01572265-01/
                                                                                             DATA 177
189
                 DATA (9CSUN (1) 11=253,288)/
                                                                                             DATA 178
```

```
,5004722E-02,
               191
                                                                8.1790640E-02,
                                                                                     7.5147416E-02, DATA 179
190
                                            8,8410%10E=02,
               192
191
                        .8482300E-02.
                                            6.1796956E=02.
                                                                5.50930345-02,
                                                                                     4.83722055-02.
                                                                                                        DATA 180
               193
                                                                2.0125105E-02.
                                                                                     2.43534915-02, DAYA 181
192
                                            3.4886527E=02.
               194
                        45733306-02,
                                             .7663449E=03.
                                                                9.94165376-04, =5.8016893E=03.
193
                                                                                                              182
               195
194
                      -1,2500488E-02,
                                          -1.9397829E-021 -2.4195118E-02, -3.2989779E-021
                                                                                                        DATA 183
                        97802305-02,
               196
195
                                          =4.6564880E=02, =5.8342131E-02, =6.8110298E-02,
                                                                                                        DATA 184
                        .6867704E-02, -7.3612635E-02, -8.0343381E-02, -8.7058173E-02, 3755241E-02, -1.0043279E-01, -1.0708904E-01, -1.1372211E-01,
               197
196
               198
197
                                                                                                        DATA 186
               199
198
                      -1.2033015E-01, -1.2691132E-01, -1.8346379E-01, -1.3998965E-01/
                                                                                                        DATA 187
200
                        (BCSUN 61) [1=289:324)/
4647499E-01, -1.5292990E-01, -4.5934841E-01, -1.6572861E-01,
                                                                                                        DATA 188
               201
                      -1
                      -1,7206859E=07, -1,7836641E=01, -1,8462006E-01, -1.9082776E=01,
201
               202
                                                                                                        DATA 190
                     -1.96987626-01, -2.03097816-01, -2.09156468-01, -2.15161816-01, -2.21111945-01, -2.27005016-01, -2.32639186-01, -2.38612506-01,
               203
                                                                                                        DATA 191
202
203
               204
                                                                                                        DATA 192
                     -2.4432309E-01, =2.4996902E-01; =2.5554633E-01; =2.6105907E-01; DATA 193
-2.6649927E-01; =2.7186692E-01; =2.7716011E-01; =2.8237677E-01; DATA 194
-2.8351495E-01; =2.9257264E-01; =2.9754797E-01; =3.8243884E-01; DATA 195
               205
204
205
               206
206
               207
                        .0724336E-01, =3.1195951E-01; =3.1658528E-01, =3.2111876E-01, DATA 196.2555795E-01, =3.2990692E-01; =3.8414568E-01, =3.8829046E-01/ DATA 197
               208
207
                      -3
               209
                      -3.2555795E-01,
208
                     TA (BCSUN (1), 1:325,360)/
=3.42333426=01, =3.4627283E=01, =3.501C597E=01, =3.5383414E=01,
209
210
                                                                                                        DATA 199
                     -3.5745269E-01, -3.6096100E=01, -3.6435747E-01, -3.6764052E=01,
211
               212
                                                                                                        DATA 200
212
               213
                     -3.7080860E-01, -3.7386017E-01, -3.7679381E-01, -3.7960800E-01, DATA 201
                     -3.8230137E-01, -3.8487251E-01, -3.8732014E-01, -3.8964294E-01, -3.9183971E-01, -3.9390932E-01, -3.9585067E-01, -3.9766278E-01,
                                                                                                        DATA 202
213
               214
               215
                                                                                                        DATA 203
215
               216
                        .9934465E-01, =4.0089539E-01, =4.0231421E-01, =4.0360020E=01,
                                                                                                        DATA 204
               217
                     -4.0475264E-01, -4.0377084E-01, -4.0665410E-01, -4.6740192E-01,
216
                                                                                                        DATA 203
                     =4.0801384E-01, -4.0848948E=01, =4.0882836E-01, =4.0903089E=01, =4.0909629E=01, =4.0902474E=01, =4.0881619E-01, =4.8847076E=01/
                                                                                                        DATA
                                                                                                             206
218
                                                                                                       DATA
                        (BCSUN [1], 1:361,368,/
219
                   DATA
                                                                                                        DATA 208
                     -4.0798853E-01, -4.0736969E-01, -4.0661453E-01, -4.0572339E-01, -4.0469661E-01, -4.0353467E-01, -4.0223810E-01, -4.080747E-01/
220
               221
                                                                                                        DATA 209
               555
                                                                                                       DATA 210
221
                        (RSUN []):1:
:8394869E-01,
555
                                                                                                        DATA
                                                                                                              210
                                           9.8393098E=01;
223
                                                                                                              211
                                                                9,83919195-01,
                                                                                    9.8391347E=01.
                                                                                                        DATA
                        .8391397E-01,
                                           9.8392080E=01,
                                                                9,83934085-01,
224
               232
                                                                                     9.8395376E=01, DAYA 212
225
                        .8397978E=01,
               233
                       9
                                           9.8401205E=01.
                                                                                     9.84094998201, DATA 213
                                                                9.8405058E-01.
                      9.8414499E=01,
               234
                                           9.8420027E=01.
                                                                9,8426058E-01,
                                                                                     9.8432553E=01, DATA 214
$26
               235
                        .8439477E-01.
                                            9.84468015=01.
227
                                                                9.84544758-01,
                                                                                     9.8462510E=01, DATA 215
                        .8470896E-01.
228
               236
                                           9,8479632E=01,
                                                                9.8488705E-01.
                                                                                     9.8498141E-01, DATA 216
                                            9.8518167E=01,
229
               237
                        .8507955E-01,
                                                                                     9.85398748=01,
                                                                9.8528802E-01:
                                                                                                        DATA
                                                                                                              217
                        .8551404E-01.
               238
                                                                9-8575917E-01.
230
                                            9.8563413E=01,
                                                                                     9.8588937E=01, DATA 218
                       9.8602488E-01,
                                           9.8616584E=01.
231
                                                                9.86312425-01,
                                                                                     9.8646460E201/ DATA 219
                        :8462241E-01,
                   DATA
                                           37: 721/
9:8678578E=01,
                                                                                                        DATA 220
233
               241
                                                                9,86954835-01,
                                                                                     9.8712714Ec01, DATA 221
                        .8730845E-01.
                                           9.8749245E=01.
234
               242
                      9.8806922E=01,
9.8888158E=01,
9.8972000E
                                                                9.87680865-01,
                                                                                     9.37873268-01, DATA 222
               243
235
236
                                           9.8826840E001.
9.8909065E01.
                                                                                     9.8867674E=01:
9.8951473E=01:
                                                                9.8847028E -01.
                                                                                                        DATA
               244
                                                                                                        DATA 224
                                                                9.89301658-01.
               245
                        .8972992E=01,
                                           9.8994728E=01:
237
                                                                9,90166956-01,
                                                                                     9.9038901E=01, DATA 225
                      9.90613626-01,
9.91540-01,
               246
                                                                9.91071128-01.
9.92023948-01.
                                           9.9084095E=01:
238
                                                                                     9.9130434E-01: DATA 226
                        .9154077E-01.
               247
                                            9
                                             9178060Ec01
239
                                                                                     9.9227092Ea01, DATA 227
                   9.9252161E-01,
9.9356188E-01,
DATA (RSUN (1),
                                                                9.93034505-01,
                                                                                     9.7329650E=01, DATA 228
240
               248
                                             9277607E=01:
               249
241
242
243
                                            9.9383035E=01.
                                                                                     9.9437548E=01/
                                                                9.94101715-01.
                                                                                                       DATA 229
                        (RSUN (1), 1:
9465124E-01,
                                           73,1081/
9,9492055E=01;
                                                                                     9.9548610E-01, DATA 231
               251
                       9
                                                                9,95206916-01,
244
               252
                        .9576583E=01.
                                           9.9604581E=01;
9.9716472E=01;
                                                                9.96325728-01.
                                                                                     9.9660555EG01: DATA 232
                        .9688523E-01.
245
               253
                                                                9.9744400 -01.
                                                                                     9.9772313E=01. DATA 233
               254
                        .9800222E-01.
                                                                9,98560586-01,
246
                                            9.9828133E=01,
                                                                                     9.9864015E=01,
                                                                                                       DATA 234
               255
256
247
                       9.9912018E-01,
1.0002484E 00,
                                                                9,99682325-01,
                                                                                     9.9996477E=01.
                                            1.0005333E 00.
                                                                1.0008198E 00.
                                                                                     1.0011076E 00.
                                                                                                        DATA 236
                       1.00139678 00,
249
               257
                                            1,0016867E 00;
                                                                1.0019777E 00.
                                                                                     1.0022692E 00. DATA 237
                                                                                     1.0034313E 00:
1.0045696E 00/
250
251
               258
                       1.0025607E 00.
1.0037189E 00,
                                           1:0025519E 00:
                                                                1.0031422E 00.
1.0042833E 00.
                                                                                                        DATA 238
                                                                                                        DATA 239
                                          109,1441/
252
                   DATA (RSUN $1), 14
                                                                                                        DATA 240
253
               261
                        .0048485E 00,
                                            1.0051248E
                                                                1,0053985E 00,
                                                                                    1.8056695E 00.
                                                                                                        DATA 241
254
                       1.0059379E 00,
                                                         001
                                                                1.0064670E
               262
                                            1:00620375
                                                                              00.
                                                                                     1.06672798 00:
                                                                                                        DATA 242
                        ,00698655 00,
                                                                1,00749778
255
               263
                                            1:0072431E
                                                                                     1.9077507E 00:
                                                         00.
                                                                              00.
                                    00,
256
               264
                        00800225
                                                                1.00850198 00,
                                            1.0002525E
                                                         00,
                                                                                     1.6087503E 00:
                                                                                                        DATA 244
               265
                       1.00899788 00.
                                            1:0092443E 00.
                                                                1.06949008 00.
                                                                                     1.8097343E 00e
257
                                                                                                        DATA 245
                                                                1,01045556
                                                                              00.
                                                                                     1.0106907E 00.
258
               266
                       1,0099769E 00,
                                            1:0102174E 00;
                                                                                                        DATA 246
                                                                1.01137618 00.
1.01223258 00.
1.01301398 00.
                        ,0109228E 00,
                                                                                     1.0115967E 00.
259
               267
                                                         00.
                                            1.0111514E
                                                                              00,
                       1,0116131E 00,
1.0126335E 00,
260
                                            1.01202515
                                                                                     1.0124353E 00:
                                                                                                        DATA
                                                         00.
                                                                                     1.9132003E 00/
261
                                            1.01282706
                                                         00.
                                                                                                        DATA
                                                                                                             249
                   DATA (RSUN (1) , 1 : 145 (180) /
262
                                                                                                        DATA 250
```

263 264	271 272	1,0140595E 00,	1.0135560E 00. 1.0142205E 00.	1.0137275E 00. 1.0143784E 00.	1.0138953E QO: DATA 251 1.0145336E QO: DATA 252
265	273		1.0148359E 00;	1:0149836E 00.	1.0151286E 00, DATA 253
266	274	1.01527078 00,	1.0154097E 00,	1,01554528 00.	1.9156770E 00, DATA 256
267	275		1.01592798 00.	1,01604625 00.	1.9161596E 00, DATA 255
868	276		1:0163705E 00.	1.01646778 00.	1.8165592E 00: DATA 256
269	277	1.01664498 00,	1.01672475 00.	1,0167987E 00,	1.0168670E 00. DATA 257
270	278		1.0169867E 00.	1,01703838 00,	1.0170847E 00: DATA 258
271	279		1.0171636E 00;	1.01719658 00.	1.0172254E 00/ DATA 259
272			81,216,/		DATA 260 6
273	281		1.0172725E 00.	1,0172914E 00,	1.8173070E 00, DATA 261
274	282		1.0173282E 00,	1.0173339E 00,	1.9173349E 00, DATA 262
275	283		1.0173251E 00.	1.0173132# 00.	그렇게 있고 그 것이 보고 하게 그 살이 가지 않는데 얼마나 보다는 그리지 않다.
276	284	1 6492/475 00.		1001,01050 001	
277	265		1:0172469E 00.	1.01721398 00.	1.9171751E 00: DATA 264
			1.0170801E 00.	1:0170235# 00.	1.8169611E 00: DATA 255
278	286	1.31689288 00,	1:0168186E 00.	1.01673588 00.	1.9164535E 00, DAYA 266
279	287		1:0164680E 00:	1.01636838 00.	1.4162645E 00: DATA 267
380	288		1:0160459E 00.	1.01593198 00.	1.0158849E 00: DATA 268
281	289		1:0155782E 00.	1401544665 00,	1.9153179E 00/ DATA 269
882	DAT	A LESUN SIJEIEZ	17,252,/		DATA 270 6
882 283	291	1.01518596 00,	1.0150505E 00,	1,01491146 00,	1.8147684E 00. DATA 271
284	292		1:0144698E 00:	1.01431398 00,	1.6141533E 00, DATA 272
85	293		1.0138175E 00.	1 0136421E CO.	1.6134617E 00: DATA 273
286	294		1:0130857E 00.	1.01289028 00,	1.8126901E 00: DATA 274
87	295		1.0122770E 00.	1.0120645E 00,	1.0118487F 00, DATA 275
88	296		1.0114086E 00.	1.01118528 00:	1.9109598E QQ: DATA 276
889	297	1.01073278 00.	1.0105039E 00.	1.01027386 00	1.0100423E 00, DATA 277
290	298		1:0095743E 00;	1,00933768 00,	
291	299				
			1.00861528 00.	1.00836965 00.	1.9081215E 00/ DATA 279
192		A . 185UN 61 11 12			DATA 280 6
93	361		1.0076165E 00;	1.0073595E 00.	1.5070993E 00. DATA 281
294	305		1.0065691E QO.	1,0062959E 00.	1.6060258E 00. DATA 282
95	303		1.0054713E 00.	1,00519046 00,	1.8049077E 00: DATA 283
96		1,00462356 00.	1:0043384E 00:	1.0040527E 00:	1.0037668E QQ. DAYA 284
97	345		1.0031953E 00.	1-00291038 00.	1.8026259E 00: DATA 285
198	346		1,00205916 00.	1+00177668 00:	1.8014946E 00: DATA 286
99			1.0009318E 00,	1 0006507E 00.	1.0003697E 00: DATA 287
00	348		9,99806875=01,	9.9952486E-01.	9.9924222E=01, DATA 285
301	309		9.9867449E=01,	9.98389086-01.	9.9810283E=01/ DATA 289
02			89,3241/		DATA 290 6
303	311	9.97815866-01,	9,9752840E=01,	9.9724048E=01,	9.9695267E=01, DATA 291
304	312		9,9637894E=01,	9.96093998-01.	9.9581074E=01, DATA 292
305	313		9.9525069E=01.	9.94974638=01.	9.9470139Ea01, DATA 293
06	314			9.93899768-01.	
		0.01100042-01	9,9416386E=01,		
07		9,93380846=01, 9,92378006=01,	9.93125908=01.	9:92873895-01.	9.9262463Ee01, DATA 295
08	316	9,9237800E=01,	9.9213383EG01.	9.9189203E-01.	9.9169231E=01, DATA 296
109	317	9,9141444E=01,	9.9117826E=01.	9.9094348=-01.	9.90710218-01: DATA 297
10	318	9,90478436=01.	9.9024820E=01.	249001942E-01.	9.8979261E=01, DATA 298
11	319	9.89568115-01,	9.8934630EG01,	9,89127646-01,	9.8891243E=01/ DATA 299
112 113	DAT	A CRSUN II) 1 23	29:3601/		DATA 300 6
13	321	9.8870100E-01,	9.8849371E=01,	9.8829099E-01,	9.8809293E-01, DATA 301
14	322	9.8789973E-01,	9:8771154EGQ1.	9,87528526-01,	9.8735067E=01, DATA 302
15	323	9.8717802E=01.	9.87010556501.	9.8684821 6-01,	9.8569089E=01, DATA 303
16	324	9.86538476-01;	9.8639079EQ01.	9486247778-01,	9.8610909E=01, DATA 304
17	325	9,85974456-01,	9.85843635-01.	9.85716356-01.	9.8359248E=01, DATA 305
18	326	9.85471845-01,	9.8535437E-01.	9.85239718-01.	9.8512830Fa01, DATA 306
	327	9.85020375=01.	9.8491621E=01.	9.8481610E-01.	9.5472034E=01, DATA 307
119	328		9.8454325E=01,	9-84462698-01.	9.8438767E=01. DATA 308
20		9.8431846E-01.	9.84255176-01.	9.84198085-01,	9.8414715Fa01/ DATA 309
20	329			- 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
20	329	A /REUN LILLIATES	61.748./		
20 121 122	329 DAT	A IRSUN (I) 113	61,3681/	0 84074045-04	DATA 310 6
20 121 122 123	329 DAT 331	9.8410247E-01.	9.8406408E=01.	9,84031965-01,	9.84006045-01: DATA 311
20 121 122 123	329 DAT 331 332	A (RSUN []),[±3 9.84102476-01, 9.8398619E-01,	9.8406408E=01. 9.8397227E=01.	9,84031966-01; 9,83964236-01;	9.84006045a01, DATA 311 9.83961686a01/ DATA 312
320 121 122 323 124 125	329 DAT 331 332 DAT	A (RSUN   1); 1 to 3 9.84102476-01; 9.83986198-01; A (RAMOON1); 1 to 3	9.8406408E=01. 9.8397227E=01. 1. 361/	9.83964235-01,	9.84006045-01: DATA 311 9.83961685-01/ DATA 312 DATA 312 6
820 821 822 823 824 825	329 331 332 DAT	A (RSUN   1); 1 ± 3 9.84102476-01; 9.83986196-01; A (RAMOON11; 11 ± 1 6.33741256-01;	9:8397227EG01: 1:36:/ 8:4266133EG01:	9.83964236-01, 1.05731018 00,	9.84006045-01: DATA 311 9.83961685-01/ DATA 312 DATA 312 1.27762935 QQ: DATA 313
820 821 822 823 824 825 826	329 331 332 DAT 341 342	A (RSUN   1); 1 ± 3 9.84102476-01; 9.83986196-01; A (RAMOON11; 11 ± 6; 33741256-01; 1.50253356 00;	9:8406408E=01: 9:8397227E=01: 1:36:/ 8:4266/33E=01: 1:7301607E 00:	9,0396423E-01, 1,0573101E 00, 1,9583767E 00,	9.84006045-01; DATA 311 9.83961685-01; DATA 312 DATA 312 1.27762935 QQ; DATA 313 2.18539225 QQ; DATA 314
20 121 122 525 124 125 126	329 331 332 DAT 341 342 343	A (RSUN   1); 1 ± 3 9.84102476-01; 9.83986196-01; A (RAMOON11; 11 ± 6; 33741256-01; 1.50253356 00;	9:8397227EG01: 1:36:/ 8:4266133EG01:	9,0396423E-01, 1,0573101E 00, 1,9583767E 00,	9.84006045-01; DATA 311 9.83961686-01; DATA 312 DATA 312 1.27762936 QQ; DATA 313 2.18539226 QQ; DATA 314
320 121 322 323 324 325 326 127	329 331 332 DAT 341 342	A (RSUN   1); 1 ± 3 9.84102476-01, 9.83986196-01, A (RAMOON11; 11 ± 6; 33741256-01, 1.50253356 00, 2.41027436 00,	9:8406408E=01: 9:8397227E=01: 1:36:/ 8:4266433E=01: 1:7301607E 00: 2:6331979E 00:	9.83964238-01; 1.05731018 00; 1.95837678 PG; 2.85542348 UO;	9.84006045-01; DATA 311 9.83961686-01; DATA 312 DATA 312 1.27762936 QQ; DATA 313 2.18539226 QQ; DATA 314 3.87907676 QQ; DATA 315
20 121 122 525 124 125 126 127 128	329 331 332 DAY 341 342 343 344	A (RSUN   1)   1   3 9.84102476-01, 9.83986198-01, A (RAMOON11;   1   8 6.33741256-01, 1.50253358 00, 2.41027438 00, 3.30680568 00,	9:8406408E=01: 9:8397227E=01: 1:36:/ 8:4266/33E=01: 1:7301607E 00: 2:6331979E 00: 3:5413238E 00:	9.83964238-01; 1.05731018 00; 1.95837678 00; 2.85542348 00; 3.78480398 00;	9.84006045-01; DATA 311 9.83961685-01; DATA 312 DATA 312 1.27762935 QQ; DATA 313 2.18539225 QQ; DATA 314 3.87907675 QQ; DATA 315 4.83811085 QQ; DATA 316
320 121 322 323 324 325 326 127 128 329	329 331 332 DAT 341 342 343 344 345	A (RSUN   1)   1   3   9   8   10247   001   9   8   3986   198   001   1   1   1   8   1   1   1   1   1	9:8406408E=01: 9:8397227E=01: 1:36:/ 8:4266/33E=01: 1:7301607E 00: 2:6331979E 00: 3:5413238E 00: 4:5670412E 00:	9.83964238-Q1; 1.05731018 QQ; 1.95837678 QQ; 2.85542348 QQ; 3.78480398 QQ; 4.83376208 QQ;	9.84006045-01; DATA 311 9.83961685-01; DATA 312 DATA 312 1.27762935 QQ; DATA 313 2.18539225 QQ; DATA 314 3.87907675 QQ; DATA 315 4.83811085 QQ; DATA 316 5.89462365 QQ; DATA 317
20 121 122 525 124 125 126 127 128 129	329 331 332 DAT 341 342 343 344 345 346	A (RSUN   1)   1   3   9   8   10247   001   9   8   3986   19   = 01   4   (RAMOQNII)   1   8   6   3374   125   = 01   1   5   (2535   5   6   00   2   4   3000468   00   5   3454223   00   6   5   3454223   00   6   6   6   6   6   6   6   6	9:8406408E=01: 9:8397227E=01: 1:36:/ 8:426643E=01: 1:7301607E 00: 2:6331979E 00: 3:5413238E 00: 4:5670412E 00: 5:5842181E 00:	9.83964238-Q1, 1.05731018 Q0, 1.75837678 P0, 2.85542348 Q0, 3.78480398 Q0, 4.83376208 Q0, 5.81124658 Q0,	9.84006045-01; DATA 311 9.83961686-01; DATA 312 DATA 312 1.27762936 QO; DATA 313 2.18539226 QO; DATA 314 3.87907676 QO; DATA 315 4.83811086 QO; DATA 316 5.89462366 QO; DATA 317 4.82827786 QO; DATA 318
320 121 122 123 124 125 126 127 128 129 130 131	329 331 332 DAT 341 342 343 344 345 346 347	A (RSUN   1)   133 9.84102476-01. 9.83986196-01. A (RAMOON11)   136 6.33741256-01. 1.50253356 00. 2.41027436 00. 3.30680566 00. 4.30004686 00. 5.34542236 00. 6.23791016 00.	9:8406408E=01: 9:8397227E=01: 1:36:/ 8:42664:3E=01: 1:7301607E 00: 2:6331979E 00: 3:5413238E 00: 4:5670412E 00: 5:5842181E 00: 1:5983000E=01:	9.83964238-Q1, 1.05731018 Q0, 1.75837678 P0, 2.85542348 Q0, 3.78480398 Q0, 4.83376208 Q0, 5.81124658 Q0, 3.63311328-Q1,	9.84006045-01; DATA 311 9.83961686-01; DATA 312 DATA 312 1.27762936 QQ; DATA 313 2.18539226 QQ; DATA 314 3.87907676 QQ; DATA 315 4.83811086 QQ; DATA 316 5.89462366 QQ; DATA 317 4.82827786 QQ; DATA 318 5.67681225-01; DATA 319
319 320 322 323 325 326 327 328 331 332	329 331 332 DAT 341 342 343 344 345 346	A (RSUN   1)   1   3   9   8   10247   001   9   8398619   001   1   1   1   8   1   1   1   1   1	9:8406408E=01: 9:8397227E=01: 1:36:/ 8:426643E=01: 1:7301607E 00: 2:6331979E 00: 3:5413238E 00: 4:5670412E 00: 5:5842181E 00:	9.83964238-Q1, 1.05731018 Q0, 1.75837678 P0, 2.85542348 Q0, 3.78480398 Q0, 4.83376208 Q0, 5.81124658 Q0,	9.84006045-01; DATA 311 9.83961686-01; DATA 312 DATA 312 1.27762936 QO; DATA 313 2.18539226 QO; DATA 314 3.87907676 QO; DATA 315 4.83811086 QO; DATA 316 5.89462366 QO; DATA 317 4.82827786 QO; DATA 318

36	351 352	3	5686	498É 248E	00	, 3	731		00,		42845E 95706E		3.2548	595E	00:	DATA		
338 339	\$53 354	4	. 4934	966E	00	, 4,			00,		86501E 62007È		5.2572	480E	00+	DATA		
40	355	8	,5209	649E	-02	, 2	914:	1854	E=01,	4.97	31596E	-01,	7.8477	249E	01.	DATA	327	
41	356	_		2177E				1266			80312E 17859E		2.481		00.	DATA		
43	358	2	.7118	250E	00	, 2,	944	2948	00,	3,18	001668	00,	3.4204	512E	00.	DATA	330	
4 4 4 5	359	DATA	. 686	100N(	100	. 5. la 73	919	93901 B./	00,	4 + 17	631698	00,	4.4359	9565	00/	DATA		6
46	361	. 4	694	5062E	0.0	, 4	948	14991			405358		5.4307			DATA	333	
48	362 363			2050E					E 00.		054716 753826		8.4678	730E	02.	DATA		
49	364	1	. 0597	7936E	0.0	. 1	275	37631	E 00,	1.49	470226	00,	1.7156	922E	00:	DATA	336	
50 51	365			2564E				05011 04851	E 00,		71838E 19573Ê		2.6143			DATA		
52	367	7 3	. 8296	520E	00	. 4	094	1574	E 00.	4 . 36	190545	000	4.6282	270E	00.	DATA	339	
53 54	368 369			3662E		. 6.			E 00.		79721E 33850E		5.6061			DATA		
55		DATA	(RAP	MOONS	171	1 = 109	,14	41/					-			DATA	342	6
56 57	371 372			2074E 8036E		, 5,		38131 25031	E=01,		35640E 90134E		9.9760			DATA		
58	373	3 2	. 0974	4513E	00	, 2	306	3260	00,		725548		2.7503			DATA		
59	374 375			2756E 5620E				084			833506		3.7141	\$22E	00.	DATA	346	
60 61	376		065	5927E	00			1668	00,		10402E 07937E		4.8032		000	DATA		
62	378	5	. 988	995E	00	. 6.	195	3688	00,	1.16	47055E	-01,	3.1956	0125	011	DATA	349	-
63	379			9828E					E 00,		23961E 14728E		2.0293			DATA		
65		DATA	(RAI	HOUNE	1,0	1:14:	,18	1.0								DATA	352	6
66 67	381 382	. 2	1225	9050Ė 5943E	00	. 3		72398	00,		32119E 13079E		2.8975 3.8591					
68	383	4	. 1291	1890E		, 4,	407	131	00,	4,93	76837E	00,	4.9623	059E	00.	DATA	355	-
69 70	384 389			4637E	00			1998	00,		35738E		5.9309	639E	000	-		
71	386	6		2835E					=01,		54470E 26919E		4.7445		00:	DATA	100	
72	387			3595E		. 1:	758	3456	00.	1.97	30757E	00.	2.1955		00.	DATA	359	
73 74	388			746E					00,		3255E		3.0585 4.0178			DATA		
75	-04	DATA	. SRAN	100N	110	1 # 1 8 1	. 21	11/								DATA	362	6
76 77	391 392			731E 32766		5.			00,	5,95	14705E 28731E	00.	5.8130		00,	DATA		
78	393	3 4	.8065	8195	=03	. 2.	130	21721	e01,	4,19	39838	=01.	6.2539	311E=	01.	DATA	365	
79 80	394			9497E		, 1	922	2214	E 00,		14723E 22963E		2.360	696E	00.	DATA	365	
81	396	2	.377	2239E	00	, 2	793	11631	E 00.	3,01	007365	00,	3.230	952E	00.	DATA	368	
82 83	397			9927E				45791	E 00;	3,93	844316 18338£	00.	4.1953 5.2650		00.	DATA		
84	399	5	.517	99825	00	, 5	759	1947	E 00;	5,98	929516	00,	6.210			DATA		
85	40:			909E					E=01;	5.61	014396	-01.	7.706	627E	04.	DATA		. 6
87	402	9		1682E	-	. 1	157	0102	E 00.		452916		1.6343			DATA		
88	403	1 2	355	6075E 2397E	0.0	. 2	077	3477	E 00;		787618		2.5177		00.	DATA	375	
90	40	3		3061E		. 3			E 00;		98510E 20140E		4.3896		00.	DATA		
91	400			8757E 2691E		. 4	914	6001	E 00.	5.17	34290E	00.	5.4249	203E	00.	DATA	378	
93	408			8034E					E 00,		32781E 33536E		9.120			DATA		
94	405	1	.126	5348E	00	, 1	342	94501	E 00.	1,56	113458	ÖÖ,	1.780			DATA	381	
95 96	413	L 2	000	400N6	00	1 8 2 3	221	1936	E 00,	2-44	17374E	00,	2.6629	525E	00.	DATA		6
97	412	2	. 8 8 5	7807E	0.0	, 3,	111	64831	E 00 i	3,34	221775	00.	3.5790	572E	100	DATA	384	
98 99	413	. 4	.823	1962E 7566E	00			62721 8221	E 00;		19216E 46747E		4.5923 5.5940			DATA		
00	41:	5 5	.825	0539E	0.0	, 6	048	9103	00,	6,36	736438	00,	1.991			DATA		
01	417	5 4	.124	3865E	-01	, 6			E-01,		283146		1.0543	183E	00 .	DATA	388	
02	418	2	140	6005E 3171E	00	, 2.			00.		53730£		2.7971		00,	DATA		
04	415	3	.022	0784E	00	, 3	253	0096	00,	The second name of the second	176006	-	3.739			DATA	391	
05	421	L 3	995	MOON 4	00	4	250	31701	E 00,	4.52	58489E	00.	4.7968	046E	00.	DATA		6
07	422	2 5	.049	6915E	00	, 5	599	43491	00,	5,93	887786	00,	5.7685	787E	00.	DATA	394	
808	423	) 5	. 990	2459E	00	. 6	200	1456	00	1,35	45033E	-01,	3,466	461E	210	DATA	395	

```
409
              424
                     5.5824044E=01,
                                        7.7127059E=01.
                                                          9.$613232E-01,
                                                                             1.2025692E
                                                                                         DO. DATA
                                                                                                    396
              425
                     1,4198388E 00,
                                                          1.8531717E 00.
                                        1:6369856E 00.
                                                                                              DATA
410
                                                                             2.9679810E
                                                                                                    397
                                                                                          004
              426
411
                       .2816249E 00,
                                        2.4950242E
                                                    00.
                                                           2.7097840E 00,
                                                                             2.9289846E 00.
                                                                                              DATA
                                                                                                    398
                                 00,
              427
                       ,15249175
                                        3.3856446E
                                                          3 6297478E 00.
412
                                                    00:
                                                                             3.8858156E
                                                                                                    399
                                                                                              DATA
                                                                                         002
                      ,1527960E
                                        4:42702526
                                                          4. 80265408 00.
413
              428
                                 00.
                                                    001
                                                                             4.97323525 00:
                                                                                              DATA
                                                                                                    400
              429
                                 00,
                                                    000
                                                           5.7166604E 00,
414
                       .2336886E
                                        5.4814894E
                                                                             5.9410172E
                                                                                              DATA
                                                                                         00/
                                                                                                    401
                      (BAMOONSI), 1:325, 360,/
,1572918E 00, 8.5274609Ec02,
415
                                                                                               DATA
                                                                                                    402
              431
                                                                             5.8295420E-01:
616
                                                           2,94119486-01,
                                                                                              DATA
                                                                                                    403
                      ,1342885E-01,
417
              432
                                        9.2639601E=01.
                                                          1-14185998 00.
                                                                             1.3590612E 00:
                                                                                              DATA 404
              433
                      ,5767315E 00,
                                                          2,0082473E 00,
2,87 1260E 00,
418
                                        1.7934849E 00.
                                                                             2.2205998E 00.
                                                                                              DATA
                                                                                                    405
                      ,4309618E
                                 00,
419
              434
                                         .6406166E 00.
                                                                             3.8666785E QQ, DATA 406
              455
420
                       .2888682E CO.
                                        3.5213418E 00.
                                                          3.764/007E 00.
                                                                             4.0260804E 07, DATA 407
 421
               436
                       .2980682E 00,
                                        4.5780817E
                                                           4.8590544E
                                                    00.
                                                                       00,
                                                                             5.4335973E 00.
                                                                                               DATA
                                                                                                    408
               437
                       .3961605E 00,
                                                           5.8793894E QO.
                                                                             6.1029173E 00.
6.6295116E=01.
 422
                                        5.6445866E 00,
                                                                                               DATA
                                                                                                    409
              438
                       .5121412E-02,
 423
                                        2.4560557EG01.
                                                           4-5410031E-01,
                                                                                               DATA 410
              439
                      8
 424
                       .7375600E-01,
                                        1:0872429E 00,
                                                           1-3032396# 00,
                                                                             1.5207946E 00/
                                                                                               DATA 411
                       (RAMOON(1), [=361,368,/
7384779E 00, 1.9968151E 00;
 425
                  DATA
                                                                                               DATA 412
                                                                                                            6
 $26
               441
                                                           2.1687339E 00,
                                                                             2.3798948E 00.
                                                                                              DATA 413
                  2.5888444E 00,
DATA (BCMOON(1), 1:
2,3941814E-01,
 427
               442
                                        2.7970034E 00.
                                                           3.0065657E 00:
                                                                             3.2203079E 00/
                                                                                               DATA 414
 428
                                        2,8288982E=01,
                                                                                               DATA 414
                                                                                                           6
              451
 429
                                                           3,1461320E-01,
                                                                             3.3274873E=01,
                                                                                               DATA
               452
                                        3.2298052E=01.
1.2740117E=01.
                                                           2.94279606-01.
 430
                       ,3581675E-01.
                                                                             2.5072373Ec011
                                                                                               DATA
                                                                                                    416
 431
               453
                       ,9422226E-01,
                                                           5.3401637E-02, =2.4261065E=02,
                      1
                                                                                               DATA
 432
               454
                    -1,0174763E-01, -1,7488377E-01, -2,8917832E-01, -2.9000868E-01,
                                                                                              DATA
              455
                                       -3.3534154E=01,
 433
                       23105756-01,
                                                                            =2.9498773E=01:
                                                         c3.2555883E-01,
                                                                                               DATA
                                                                                                    419
 434
               456
                    -2.4695083E=01,
                                       -1.8600813E=01;
                                                          =1.16997598-01,
                                                                            =4.4346984E=02,
                                                                                               DATA
                                                                                                    420
               457
                                        9.7759636EqQ2,
 435
                       .8233433E=02,
                                                           1.61919876-01,
                                                                             2.1837133E=01,
                                                                                               DATA
                                                                                                    421
               458
                       .6556152E-01.
                                                           3.2485322E-01,
 436
                                                                             3.3374348E=01,
                                        3.0162054E001,
                                                                                               DATA
                                                                                                    422
               459
                      3.2715802E-01,
 437
                                        3.0459979E=01.
                                                           2.6643434E-01,
                                                                             2.1401615E=01/
                                                                                               DATA
                                                                                                    423
                                        37, 721/
 438
                    TA (BCMOONSI): 1:
                                                                                               DATA 424
                        4967559E=01,
 439
               461
                                        7.6590162E=02; =1.4160414E=03, =8.8086512E=02,
                                                                                               DATA
                       ,5493120E-01,
               462
 440
                                       -2.2141873E-01, -2.7521194E-01, -3.1251115E-01,
                                                                                               DATA 426
 441
                       .3052260E-01,
                    e3
               463
                                       =3.2795026E=01, =3.0530008E=01, =2.6481008E=01,
                                                                                               DATA 427
                       .1000927E=01.
 442
               464
                                       =1.4509277E=01, =7.4340668E-02, =1.7160722E=03,
                                                                                               DATA
 443
               465
                      6
                       ,9332831E-02,
                                                           1.95594176-01.
                                        1:3590782EG01.
                                                                             2.4635133Ec01.
                                                                                               DATA
                                                                                                    429
              466
 444
                      2.86408516-01,
                                        3:1420053E=01.
                                                           3.2836770E-01:
                                                                             3.27826445-011
                                                                                               DATA
                                                                                                    430
                       ,1190319E-01,
 645
               467
                                                           2.84295116-01,
                                        2.8050530E-01,
                                                                             1.74832385=011
                                                                                               DATA
 446
               468
                     1,04656175-01,
                                        2.7279209E=02, =5.2930116E-02, =1.4099543E=01,
                                                                                              DATA
              469
 447
                    -2.0171003E-01, -2.6012252E-01, -3.0206349E-01, -3.2476687E-01/
                                                                                               DATA
                                                                                                    433
                    TA (8CMOON41), 1: 73,108)/
=3,27033598-01, -3,0950446E-01, -2,7430586E-01, -2.2459723E-01,
 448
                   ATA
                                                                                               DATA
                                                                                                    434
                                                                                                           6
               471
 449
                                                                                                    435
                                                                                               DATA
              472
 450
                    =1,6406436E=01, =9,6515535E=02, =2,5622062E=02,
                                                                             4.5221325E=02.
                                                                                               DATA
                                                                                                    435
                     1,1295843E-01,
3,0406047E-01,
451
               473
                                        1.7488946E=01,
                                                          2+2856657E-01,
                                                                             2.7228195E=011
                                                                                               DATA
                                                          3,27118795-01,
1,99007585-01,
                       ,0406047E=01.
                                        3.2266504E=01.
                                                                             3.1684275E=01.
 452
                                                                                               DATA
               475
                       91706716-01,
 453
                      2
                                                                             1.8417094E=011
                                                                                               DATA
                                        2:5209661E=01,
                                                                                                    439
               476
 454
                       ,0205674E-02,
                                                          =9,9523083E-02,
                                       -1.9250968E=02.
                                                                            -1.7510080E=01,
                                                                                               DATA
                                                                                                    440
                       ,4015872E=01,
 455
               477
                                                                            =3.2682406E=01,
=1.7779276E=01,
                                       =2.8937273Ec01.
                                                         -3-1884837E-01,
                                                                                               DATA
                                                                                                    441
              478
                       .1383351E-01, -2.8227244E-01, -2.8563586E-01,
 456
                                                                                               DATA
                                                                                                    442
               479
 457
                    =1.1251720E=01, =4.3287947E=02,
                                                          2.67373778-02,
                                                                             9.4676729E=02/
                                                                                               DATA 443
                  DATA (BCMOON(I), [=109,144,/
1,5787595E-01, 2,1389369E-01,
 458
                                                                                               DATA
               481
 459
                                                           2. 4052407E-01,
                                                                             2.9586463E=01,
                                                                                                    445
                                                                                               DATA
                       ,1839166E-01,
 460
               482
                                                           3.2125542E-01,
                                        3.27040785=01.
                                                                             3.00994676=01:
                                                                                               DATA
                                                                                                    446
                       ,66707666-01,
               483
 461
                                                           1.6018256E-01,
                                        2.1930689E=01,
                                                                             9.1293442E=02,
                                                                                               DATA
                                                                                                    447
 463
                                      -6.4021390E=02.
                                                         =1.4204425E-01,
-3.2689125E-01;
                                                                            =2.1300780E=01,
=3.2095405E=01,
               484
                       ,5340365E=02,
                                                                                               DATA
               485
                       .7078837E-01,
                                                                                               DATA
              486
                                                         -1.9378015E-01,
464
                    ·2.94116154×01,
                                       -2.5021605E-01,
                                                                            -1.2917251E-01.
                                                                                              DATA
                                                                                                   450
                       .0209260E-02,
                                        9.8783205E-03.
 465
               487
                                                           7,8314264E-02,
                    66
                                                                             1.4261658E=01,
                                                                                              DATA 451
              488
                       .0047843E-01.
                                                                             3.1463314E=01,
2.7905184E=01/
                                        2.4972461E-01
                                                           2.8835095E-01,
 466
                                                                                              DATA 452
 467
              489
                      3.2727283E-01.
                                                           3.0929080E-01,
                                        3,2552980E=01,
                                                                                              DATA
                                                                                                   453
                       (BCMOON(1, 11=145,180,7
3883430E-01, 1,810897
 468
                                                                                               DATA 454
 469
              491
                                        1.8108979Ee01;
                                                           1-1665645E-01,
                                                                             4.4811736E=02,
                                                                                                    455
                                                                                               DATA
                       1570829E=02, =1.0880038E=01, 9477637E=01, =3.2288926E=01,
470
              492
                                                         =1.8219702E-01,
                                                                            =2.4616846E=01,
                                                                                              DATA
 471
               493
                    -2
                                                         43.2758748E-01, =3.0906223E-01, DATA 457
              494
                       .7038850E-01,
 472
                    .2
                                       -2.1635648E-01.
                                                         =1.5213576E-01, =8.2390331E=02,
                                                                                              DATA
                                                                                                   458
               495
                       .0959719E-02.
                                                           1.23212896-01,
 473
                                        5.9082126E=02,
                                                                             1.85238885=01,
                    -1
                                                                                               BATA
                                                                                                    459
                       .3713703E-01,
 474
               496
                                        2.7899447E001.
                                                           3.09052205-01,
                                                                             3.2583766E=01.
                                                                                              DATA
                                                                                                    460
 475
               497
                       , 2834364E-01,
                                        3.1618887E=01,
                                                           2.8969595E-01,
                                                                             2.4985973E=01,
                                                                                              DATA
                                                                                                    461
 476
               498
                        9923353E-01,
                                        1:3679824E=01.
                                                           6,7882678E-02,
                                                                            -5.8220429E=031
                                                                                              DATA
 477
               499
                    -8.1149588E-02,
                                       -1.5429200E=01,
                                                         -2-2068790E-01, -2.7514567E-01/ DATA 463
                        (BCMOON(1), [=181,216]/
1242234E=01, =3,2830476E=01, =3,2086342E=01, =2.9115861E=01,
 478
                                                                                               DATA 464
 479
              501
                                                                                              DATA 465
              502
 460
                       42891976-01, -1:8123457E-01; -1-1155599E-01; -3.8599662E-02, DATA
                                                                                                    466
              503
                                                          1,6559978E-01,
3.2099329E-01,
                       .3803960E=02,
 481
                                        1.0266320E201,
                                                                             2.2061455E=01, DATA
                                                                                                    467
```

504

482

2.6591915E-01,

2.99867225=01.

3.2814234E=01, DATA 468

```
505
483
                    3.2064688E=01,
                                      2.9848696E=01,
                                                        2.6237212E-01,
                                                                          2.1371877E=01. DATA 469
                      .5454553E=01.
484
             506
                                      8.7342532Ec02,
                                                        1,4972156E-02, -5.9363275E-02,
                                                                                           DATA 470
485
             507
                   -1.3208791E-01: -1.9919928E-01: -2.5629510E-01: -2.9882326E-01:
                                                                                            DATA 471
486
             5 u 8
                   -3.2267794E-01,
                                     -3,2509413E-01, -3,0550025E-01, -2.6583283E-01, DATA 472
             509
                   -2.1007651E-01,
487
                                     -1.4328767E=01, -7,0603713E-02, 3.4118697E=03/
                                                                                           DATA 473
                 DATA (BCMOON(1), 1:217,252,/
7,50253716-02, 1,4130146E-01,
488
                                                                                            DATA 474
                                                                           2.4904889E-01:
489
                                                        1,9993326E-01,
                                                                                           DATA 475
490
                                                        3,2458629E-01,
             512
                      .8706442E=01.
                                      3.1261674E=01.
                                                                           3.2219485E=01,
                                                                                           DATA 476
491
                      .0514495E=01,
             513
                                      2,7375272E=01,
                                                        2,2903222E-01,
                                                                          1.7271018E=01.
                                                                                           DATA
                                                                                                 477
492
             514
                    1.0717646F=01,
                                      3,5394302E=02, -3,9201550E-02,
                                                                         -1.1280153E=01.
                                                                                           DATA 478
             515
493
                   =1,8131744E=01, =2,4051444E=01,
                                                       =2 4 6624577E-Q1,
                                                                                            DATA 479
                                                                         =3.1485461E=01,
494
                      .2373584E-01,
             516
                   =3
                                    -3.1190621E=01, =2,8032295E-01,
                                                                          =2.3175862E=01,
                                                                                           DATA 480
495
             517
                   =1.7027199E=01, =1.0050713E=01, =2,7068982E=0?,
                                                                           4.5891636E=02.
                                                                                           DATA 481
                     .1486891E-01,
496
             518
                                                        2,8010078E-01,
                                                                           2.72329925-01. DATA 482
                                      1.7702266E=01,
             519
497
                                                        3,2169726E-01,
                    3.02321195-01,
                                       3.1901847E=01,
                                                                           3.1000722E=01/ DATA 483
                 DATA (BCMOON(1), 1=253,288,/
2.84043715=01, 2.444307
498
                                                                                            DATA 484
499
             521
                                      2,4443078Ea01,
                                                        1,9240227E-01,
                                                                          1.2987038E=01,
                                                                                           DATA 485
                    5.9469211 =02, =1.3446650E=02; =9.0874738E=02, =1.6232971E=01,
500
             522
                                                                                            DATA 486
501
             523
                   -2.2513532=-01, -2.7482554E=01, =3.0765666E-01, =3.2113384E=01, DATA 487
                   =3,1440562E=01, =2.8836906E=01, =2,4543659E=01, =1.8907408E=01, DATA 488 =1,2329150E=01, =5,2220603E=02, 2,9178008E=02, 9.8294413E=02, DATA 489
902
             524
              525
≸03
              526
504
                    1.5496839E=01,
                                      2.1153490Ec01;
                                                        2-5783554E-01,
                                                                          2.9221019E=01: DATA 490
                                                                           2.93534205=011
505
              527
                      .1347830E=01,
                                                         3+1422925E-01,
                                       3.2091567E=01,
                                                                                            DATA 491
906
              528
                     2.5934340E=01,
                                       2.1256632E-01,
                                                         1,54672266-01,
                                                                           8.7603095E-02.
                                                                                            DATA 492
507
                    1.4115891E=02, =6.2197011E=02, =1.8687851E=01, =2.0481256E=01/
                                                                                            DATA 493
908
                  ATA (BCMOON(1), 1=289,324)/
-2.6072167E-01; -2.9993275E-01; -3,1922429E-01; -3.1743186E-01;
                                                                                            DATA 494
              531
                                                                                            DATA 495
510
              532
                   -2.9553200E-01, -2.5619163E-01, -2x0305560E-01, -1.4010093E-01,
                                                                                            DATA 496
                      .12289976=02, =8.6891755E=05,
                                                        6,9975585E-02,
511
              533
                                                                          1.3590348E=01.
                                                                                            DATA 497
912
                                       2.4469545E=01,
              534
                    1,9494548E-01,
                                                         2+8316314E-01,
                                                                           3.0885329E=01,
                                                                                            DATA 498
513
              535
                    3.2082491E-01,
                                       3.1870430E=01;
                                                         3.0264306E-01,
                                                                           2.7323579E-01,
                                                                                           DATA 499
              536
                                       1:7850262E=01:
914
                    2,3143432E=01,
                                                        1,1604885E-01,
                                                                           4,6150207E=02
                                                                                            DATA 500
 15
              537
                   =2,8443261E=02, =1:0408600E=01, =1.7611915E-01, =2.3904268E=01,
                                                                                            DATA 501
                   -2,8715460E-01, =3:1565491E=01, =3:2185111E-01, =3.8583603E=01,
              538
716
                                                                                           DATA 502
              539
                   -2.7022816E-01,
517
                                     =2.1919165E=01, =1+5735215E=01, =8.9069691E=02/ DATA 503
                 UATA (BCMODN(1), 1+325, 360)/
c1,8152017E-02, 5.2137438E-02,
518
519
                                                                                            DATA
                                                                                                 504
              541
                                                        1,18952286-01,
                                                                           1.7973692E=01,
                                                                                            DATA 505
              542
$20
                    2,3216368E=01,
                                       2.7415446E=01
                                                                           3.2037460E=011
                                                                                           DATA 506
                                                         J. 03976415-01,
                     ,22688266-01,
              543
                                                                           2.47781025-011
521
                                       3.1089767E=ui.
                                                         2.8557808E-01.
                                                                                            DATA 507
                     ,9889790E-01,
              544
922
                                                         7,46737155-02,
                                       1.4056760E=01;
                                                                           3.4510786E303, DATA 508
              545
                     ,0308548E-02,
                                     =1.4300513E=01,
523
                                                       =2-10056456-01,
                                                                          =2.6601456E=01, DATA 509
              546
                     ,0521986E=01,
$24
                                     =3.2304848E=01, =3.1732607E=01, =2.8907589E=01,
                                                                                            DATA 510
525
              547
                      .4206868E=01,
                                                       =1.1277186E-Q1, =4.8505074E=Q2,
                                     =1.8152012E=01.
                                                                                            DATA 511
526
              548
                      .1482899E-02,
                                       1,0016496E=01,
                                                        1.0305790E-01.
                                                                           2.1801990E=01,
                                                                                            DATA 512
              549
527
                    2.63136036=01,
                                       2.9671190E=01:
                                                         3.1736263E=01,
                                                                           3.24156956-01/
                                                                                            DATA 513
                 DATA ( BCMQON ( 1 ) , 1 = 361 , 368 ) /
528
                                                                                            DATA 514
                                                                                                        6
                      ,1675394E-01,
329
                                       2,9547041E=01,
                                                        2,6124607E-01, 2,1552427E=01,
2,8543608E-02, =4.2814964E=02/
              552
                                                                                           DATA 516
$30
                    1.6010400E=01,
                                       9.7026602E=02;
                 DATA (RMOON $1), !=
6,3499538E 01,
531
                                      1, 36)/
6,3480696E 01,
                                                                                            DATA 516
                                                                                                        6
$32
                                                                           6.2990232E 01,
                                                         6.3301058E 01,
                                                                                            DATA 517
                                                         6,1599696E
                      ,25815825 01,
                                                                    01,
$33
              562
                                       6:2108271E
                                                  01:
                                                                           6.1078864E 01.
                                                                                            DATA 510
              563
                      .09612182 01,
                                                                           5.9091988E 01, DATA 519
534
                                                         5,95645695 01,
                                       6.0055205E 01,
                     ,8643298E
935
              564
                                01,
                                       5.8231192E
                                                         5.7877270E
                                                                           5.7611501E
                                                  01.
                                                                                            DATA
                                                                    01,
                                                                                      01.
                      .7468561E
              565
                                       5.7482038E 01
                                                         5,7675651E
                                                                           5.8057074E 01:
536
                                                                     011
                                                                                            DATA 521
                                 01,
              566
                      .8613058E 01,
937
                                                         6+0094426E
                                                                    011
                                       5.9309309E
                                                                           6.8906693E
                                                                                      011
                                                  01.
                                                                                            DATA 522
738
                     6,1681877E 01,
              567
                                                         6,28928896
                                                                           6.2684176E 01:
                                       6,2360396E
                                                                    01,
                                                                                            DATA 523
                                                   01.
              568
                      ,3393982E 01,
739
                                       6.3339955E 01,
                                                         6.8094476E 01.
                                                                                            DATA 524
              569
                                       6:1528345E
540
                      .2146968E 01,
                                                  01:
                                                         6.0876816E 01,
                                                                           6.9238816E 01/
                                                                                            DATA 525
                 DATA (RMOON 41), 1 = 5,96537686 01,
                                       37. 721/
5.9150217E
341
342
                                                                                            DATA 526
              571
                                                   01,
                                                         5,8743931E 01,
                                                                           5.8438536E 01.
                                                                                            DATA 527
              572
                      .8228568E
543
                                01,
                                                         5.80562978 01,
                                       5.8104201E
                                                  01.
                                                                                      01: DATA 528
                                                                           5.8080406E
              573
                      .81785855
544
                                01,
                                       5.8358565E
                                                         5.8630455E 01.
                                                                           5.9001876E
                                                  01.
                                                                                      01: DATA 529
                     94729015
945
              574
                                01,
                                                         6,0655642E C1.
                                       6:0032231E
                                                                           6.1307066E 011
                                                  01.
                                                                                            DATA 530
              575
                      .1941910E 01,
                                       6.2511781E
946
                                                         6.29696515
                                                                           6.4274673E 01, DATA 531
                                                  01.
                                                                    01.
              576
947
                      ,3396196E 01,
                                       6.3316810E
                                                         6-3034345E
                                                                    01.
                                                  01,
                                                                           6.2562853E
                                                                                      011
                                                                                            DATA
                                                                                                 532
             577
548
                      ,1932413E 01,
                                                                           5.9585494E Q11
                                       0.1187615E 01:
                                                         6.0384460E 01.
                                                                                            DATA 533
              578
                     .8853309€ 01,
549
                                       5.8243045E 014
                                                         5.7795231E 01.
                                                                           5.2530902E 01:
                                                                                           DATA 534
              579
350
                      .7450090E 01,
                                       5,7534892E 01.
                                                         5.77555356 01,
                                                                           5.8077979E 01/
                                                                                           DATA 535
                 DATA (RMOON $1:11 * 5:84707385 01;
                                      73.108,/
5,8909400E 01.
351
                                                                                            DATA 536
352
              581
                                                         549378184E Q1,
                                                                           5.98687476 01, DATA 537
                                01.
953
              582
                     ,0376990E
                                                         6.1427193E
                                                                    01,
                                       6,0898995E 01.
                                                                           6.1947687E
                                                                                      01. DATA 538
554
             583
                     ,2439213E 01,
                                                         6+$219259E 011
                                                                           6.34420285 01: DATA 539
                                       6.2873848E 01.
555
              584
                     6.35115215 01,
                                       6.34038072 01.
                                                         6+81052738 01,
```

6.2615722E 01, DATA 540

```
585
                      6,1950709E 01,
556
                                         6:1142830E 01:
                                                                                5.9310359E 01. DATA 541
                                                            6 v 0 2 4 1 4 5 1 E 01,
557
              586
                       ,8423831E 01,
                                         5.7653920E 01.
                                                            5.9070472E 01,
                                                                                5.6720724E
                                                                                            01:
                                                                                                  DATA 542
958
              587
                       .6626385E 01,
                                         5,6779939E 01,
                                                            5.7148174E 01,
                                                                                5.7680674E 01, DATA 543
                                         5.9013069E 01,
6 1602755E 01,
359
              588
                       .8320364E
                                                            5 9714090E
                                                                          01.
                                                                                6.8391171E
                                                                                             011
              589
960
                                                            6.2122138E 01,
                                                                                6.2579670E
                       .1024223E 01,
                                                                                            01/
                                                                                                  DATA 543
                    TA (EMOON (1), [=109,144,/
6,2971092E 01, 6,3288167E 01,
961
                                                                                                  DATA 546
              591
562
                                                            6.3517684E 01,
                                                                                6.3641996E 01,
                                                                                                  DATA 547
                       ,3640589E 01,
              592
$63
                                         6.3494436E 01,
                                                            6.$186504E 01.
                                                                                6.2798573E Q1, DATA 548
              593
                       .2063407E 01.
                                                            6.0357452E 01.
                                                                                5.9382638E 01, DATA 549
364
                                         6.1268306E 01,
365
              594
                       8411512E
                                   011
                                         5.7522579E 01:
                                                            5 6796463E
                                                                                5.63040345
                                                                                                  DATA 550
                                                                                            011
                       ,6093783E 01,
              595
                                                                                5.7154237E
                                                                                             01:
                                                                                                  DATA 551
366
                                         5.6182371E
                                                      01 :
                                                            5.4551788E
              596
                       .7922888E 01,
                                         5.8784355E 01.
                                                            5.9669971E 01,
                                                                                6.8523118E
967
                                                                                            01 . DATA 552
                       . 1302645E 01,
                                                                                6.3004737E
              597
                                         6.1982850E 01.
                                                            6x2551182E 01,
568
                                                                                            01:
                                                                                                  DATA 553
                       .3346298E 01,
                                                            6.3710404E 01,
969
              598
                                         6:3580457E 01:
                                                                                6.3735940E Q1: DATA 554
              599
                      6.3652832E 01,
970
                                         6.3453430E 01,
                                                            6x8128489E 01,
                                                                                6.2670103E 01/
                                                                                                  DATA 555
                  DATA (RMOON 61, 1=145,180,/
6,2075389= 01, 6,1350383E
                                                                                                  DATA 556
                                                                                                  DATA 557
572
                                                                                            01,
              601
                                                      01.
                                                            6.05137146 01,
                                                                                5.9509519E
973
                       .8658680E 01.
                                                                                5.6377943E
                                                                                                  DATA 558
              6 u 2
                                         5:7757299E
                                                      011
                                                            5 . 6971463E
                                                                         011
                                                                                            011
              603
                                         5.6003287E
374
                       ,6041736E 01,
                                                             5.02695315
                                                                         01,
                                                                                5.6812100E
                                                                                                  DATA 559
                                                      01.
                                                                                             011
                      5.7573393E 01.
                                         5.8478077E 01,
375
              644
                                                             5.9446047E
                                                                                6.8403379E
                                                                                                  DATA 560
                                                                         01:
                                                                                            01:
                       ,1289539E 01,
              605
                                                            6.26902398 01,
576
                                         6.2060754E 01.
                                                                                6.3166306E 01, DATA 561
                       ,3489280E 01,
377
                      6
                                                            6 - 3714876E
                                                                                6.3644519E
6.2378094E
              646
                                         6.3667784E 01.
                                                                                                  DATA 562
                                                                         01.
                                                                                            011
              6 U 7
                                  01,
                                                            6+2832632E
378
                      6.3468893E
                                         6.3196704E 01;
                                                                                            011
                                                                                                  DATA 563
                                                                         01,
379
              648
                      6
                       ,1833417E 01,
                                                                                5.9716553E 011
                                                                                                  DATA 564
                                         6:1201069E 01;
                                                            6,0489429E 01,
              649
                      5.8913227E C1,
580
                                         5.8124286E
                                                      01.
                                                            5.7407063E 01,
                                                                                5.6826209E
                                                                                             01/
                                                                                                  DATA 565
                  DATA (RMOON $1), 1:181, 216)/
581
                                                                                                  DATA 566
                      5,6444838E 01,
                                                            5.6458151# Q1,
5.9297749# Q1,
982
              611
                                         5,6313267E 01,
                                                                                5.6875532E 01,
                                                                                                  DATA 567
                       ,7530361E 01,
              612
583
                                                                                6.8258376E
                                         5.8362615E
                                                      01.
                                                                                                  DATA 568
                                                                                             011
584
                                         6.1982248E Q1.
                                                            6.2645742E Q1,
                                                                                5.3137786E Q1.
                       .3449193E 01.
385
              614
                                         6.3584292E 01,
                                                            6.3557855E 01,
                                                                                6.3391582E 01: DATA 570
              615
                       ,311048CE
                                                            6.2300715E
6.0146354E
                                                                                6.1811583E
5.9549996E
986
                      6
                                         6:2739492E 01:
                                  01,
                                                                         011
                                                                                                  DATA 571
                                                                                             311
              616
                       .1284353E 01.
                                         6.0727147E 01,
587
                                                                         01 /
                                                                                                  DATA 572
                                                                                             01.
                                                                                5.3408315E 01:
5.3390011E 01:
6.8292976E 01/
                                                            5.7844539E
588
              617
                                         5.8372383E 01.
                      5.8951418E 01.
                                                            5.7844539E 01,
5.7077904E 01;
                                                                                                  DATA 573
              618
589
                      5.7108700E 01,
                                         5.6988152E 01,
                                                                                                  DATA 574
590
              619
                      5.7912591E 01,
                                         5.8609881E 01,
                                                            5.94270296 01,
                                                                                                  DATA 575
                  DATA (RMOON (1), 1:217, 252)/
6, 1154203E 01, 6:1932454E 01,
591
                                                                                                  DATA 576
              621
592
                                                            6 2580432E 01,
                                                                                6.3060290E 01,
                                                                                                  DATA 577
                                                            6.8350259E 01.
593
                     6.3350118E 01.
6.2694894E 01.
                                                                                6.3090348E
6.1068474E
              622
                                         6.344389BE
                                                                                            01:
                                                                                                  DATA 578
                                                      01.
594
              623
                                         6.2200618E 01.
                                                            6,1646245E 01,
                                                                                            01.
                                                                                                  DATA 579
              624
                                                            5,9466322E 01,
5,8052999E 01,
                     6.0498476E 01,
5.8641932E 01,
595
                                                                                5.9026181E
                                         5.9959527E
                                                      020
                                                                                            011
                                                                                                  DATA 580
596
                                         5.8315766E
                                                                                5.7864376E
                                                                                            011
                                                                                                  DATA 581
                       .7767539E 01,
397
              626
                                                            5.7929674E 01.
                                         5,7782579E 01.
                                                                                5.8222141E
                                                                                            01.
                                                                                                  DATA 582
                       ,8461188E 01,
                                         5,9232397E
598
              627
                                                      011
                                                            5,9905208E 01,
                                                                                6.8635473E
                                                                                            01+
                                                                                                  DATA 583
                                                            6-2634383E 01.
6-3222405E 01.
              628
                       .1370321E 01,
599
                                                                                6.3064695E
                                                                                             011
                                         6.2054126E
                                                                                                  DATA 584
                                                      01.
              629
                      6.3318472E 01,
600
                                         6.3371352E 01,
                                                                                6.2884258E
                                                                                            01/
                                                                                                  DATA 585
601
                  DATA (RMOON (1), [ +253, 288)/
6.2384119E 01, 6.1761689E
                                                                                                  DATA
                                                                                                        586
              631
                                                                                6.8349981E 01.
                                                                                                  DATA 587
                                                            6,2065826E 01,
                       .966657E 01,
                                          .9061585E 01.
                                                            5, 8568666E Q1,
                                                                                5.8206877E 01.
              632
                                         5
                                                                                                 DATA 588
603
                       .7980135E 01.
404
              633
                                         5,7879830E 01,
                                                                                            01. DATA 589
                                                            5,7889962E 01,
                                                                                5.1992743E
                       8173458E 01,
              634
605
                                         5.8423196E 01,
                                                                                5.9121362F
6.1240596E
                                                            5.8738936E 01,
                                                                                             01. DATA 590
              635
                      5.95708226 01.
                                         6,0083327E 01;
                                                            6,0647047E 01,
606
                                                                                            01.
                                                                                                  DATA 591
                                                            6.28615468 01,
6.32421518 01,
              636
                      6,1833303E 01,
                                                                                6.3215088E
607
                                         6,2387398E 01,
                                                                                                  DATA 592
                                                                                            010
                       .3412311E 01,
                                                                                6.2859406E 01,
                                         6:3426299E 01.
608
              637
                      6
                                                                                                  DATA 593
              638
                       .2293604E 01,
609
                      6
                                                                                5.9892001E 01.
                                         6.1576711E 01.
                                                            6,0756159E Q1,
                                                                                                  DATA 594
                      5.9051866E 01, 5.8303745E 01,
A (RMOON 61, 11, 289, 324, /
5.7119028E 01, 5.7143389E 01,
610
              639
                                                            5.7707344E 01,
                                                                                5.7305669E
                                                                                                  DATA 595
                                                                                            11/
                  DATA
611
                                                                                                  DATA 596
DATA 597
              641
                                                            5.7353733E 01,
                                                                                5.2711313E 01:
613
              642
                       .8172482E 01,
                                         5.8696559E 01.
                                                            5 9 9 2 3 1 0 4 7 E 01 .
                                                                                5.9813622E
                                                                                                  TATA
                                                                                                       598
                                                                                             01:
                                                                                                  DATA 599
              643
                      6.0371203E 01.
                                         6.0915952E 01.
                                                                                6.1953224E
414
                                                            6,2446316E 01,
                                                                                             011
              644
                       2427167E 01,
415
                                         6.2851660E 01;
                                                            6,32042766 01.
                                                                                6.3458232E
                                                                                            01. DATA 600
              645
                                                            6.83572368 01,
616
                      6,3585135E 01,
                                         6.3558449E 01,
                                                                                6.2970018E 011
                                                                                                  DATA 601
                       2397985E 01.
                                         6.1658056E 01.
5.7956951E 01.
                                                                                5.9829750E
              646
                                                            6.0784610E 01,
                                                                                            01:
                                                                                                 DATA 602
              647
                       .8861176E 01,
.6368394E 01,
                                                            5.7196855E Q1,
                                                                                            01:
                                                                                5.4651065E
                                                                                                  DATA 603
              648
                                                            5.6634276E 01.
                                                                                5.7126344E
619
                                         5.6367506E 01,
                                                                                             01,
                                                                                                  DATA 604
                  5.7783216E 01.
DATA (RMOON (1), I
6.0834854E 01,
950
                                         5.9538379E 01.
                                                            5.9329871E 01.
                                                                                6.9107297E 01/
                                                                                                  DATA 605
621
                                       *325,360,/
6,1490962E 01,
                                                                                                  DATA 606
              651
                                                            6,2065508E 01,
                                                                                6.2555917E 01.
                       2962993E 01,
                                         6.328/1945 01.
                                                                                6.3671317E U1, DATA 608
623
              652
                                                            6,3525788E 01,
              653
                       3711573E 01,
2513538E 01,
                                         6:3630924E 01:
                                                                         011
624
                                                            6,84127735
                                                                                6.3042928E
                                                                                            Q1: DATA 609
                                                            6.1000358E
5.7.25822E
5.0074487E
625
              654
                                         6,1827133E
                                                      01.
                                                                         01.
                                                                                6.9066876E
                                                                                             011
                                                                                                  DATA
                                                                                                       610
                                         5:8104720E 01:
5:5927947E 01:
                                                                                5.4525378E
5.4553199E
              655
                       .9078683E 01,
$26
                                                                                                  DATA 611
                                                                         011
                                                                                             011
427
              656
                       .6076432E Q1.
                                                                         011
                                                                                            DATA
428
              657
                      5,7249300E 01,
                                         5.8107957E 01:
                                                            5x90482608 01,
                                                                                5.9995206E Q1: DATA 613
```

6.2882745E Q1, DATA 614

658

629

6.0887559E 01.

6.02681185

00,

6.0430360E

00.

```
6.1681421E 01: 628350293E 01:
6.3545711E 01: 628694068E 01:
                    659
                            6.3278779E 01.
   530
                                                                                             6.8733979E 01/ DATA 613
                       DATA ( RMOON (1) , 1 = 361, 368)/
   631
                                                                                                                 DATA 616
                           6.3672520E 01,
6.2404260E 01,
                   661
                                                 6:3512275E 01:
6:1805866E 01,
                                                                       6.11014026 01.
                                                                                            6.2863934E 014
6.9296631E 01/
   932
933
                                                                                                                DATA 618
                        END
   634
                                                                                                                 DATA 619
                                                                                                                                6
       29748 WORDS OF MEMORY USED BY THIS COMPILATION
71034 02 11=03-72
                            11.778
                                            1977 EPHEMERIS
           PREFACE
      PROGRAM BREAK
                           4273
      COMMON LENGTH
                         ENTRY
    PRIMARY SYMDEF
        TABLE
                               0
 SECONDARY SYMDEF ENTRY
        BLOCK
                        LENGTH
    1 EPHBLK
                             11
        SYMREF
  END OF BINARY CARD *1977*19
 4273 IS THE NEXT AVAILABLE LOCATION.
                    SSEMBLY DATES JMPA 110171/102971
NO WARNING FLAGS IN THE ABOVE ASSEMBLY
                                                                          JMPB 110171/102971
                                                                                                         JMPC 110171/102971
 THERE WERE
 ** 19411 WORDS OF MEMORY WERE USED BY GMAP FOR THIS ASSEMBLY.
                                       1978 EPHEMERIS
                           11.790
71054 02 11-03-72
                                1978 EPHENERIS
                C*1978*
                                                                                                                 DATA
                        SUBROUTINE TABLE
                                                                                                                 DAYA
                        DIMENSION RASUN (369), DOSUN (369), RSUN (369)
DIMENSION RAMODY (369), DOMODN (369), RMOON (369)
                                                                                                                 DATA
                                                                                                                 DATA
                        DIMENSION ARRAY(2214)
                        DOUBLE PRECISION Y
                        EQUIVALENCE (RASUN; ARRAY), (DCSUN; ARRAY(370)), (RSUN, ARRAY(739))
EQUIVALENCE (RAMOON, ARRAY(1108)), (DEMOON, ARRAY(1477))
EQUIVALENCE (RMOON, ARRAY(1846))
COMMON / EPHBLK/ Y(4), [
      8
      9
                        COMMON /EPHBLK/
Y(1) = ARRAY(1)
     10
     11
                        Y(2) = ARRAY(1+1)
     12
                        Y(3) * ARRAY(1+2)
                        Y(4) & ARRAY(1+3)
     15
                        RETURN
                                                 1, 36)/
4.9062641E 00,
4.9831688E 00,
     16
                        DATA (RASUN 11):1:
4.8869814E 00.
                                                                                                                          6
                                                                       4,9255262E 00.
                                                                                             4.9447657E 00. DATA
                     12
                                                                                             5.0214559E
5.0976061E
                            4.9639806E 00,
                                                                       5.0023281E 00.
     18
                                                                                                           DO. DATA
                                                                                                                          8
                             .0405499E
     19
                                          00,
                                                                       5,07862746
                                                                                     00,
                                                                                                                 DATA
                                                  5.0596079E
                                                                00.
                                                                                                           00.
                                                                                             5.1730724E QQ: DATA
5.2477490E QQ: DATA
                           5.1165418E 00,
5.1918189E 00,
                                                                       5-1542763E
     20
                                                                000
                                                 5.1354324E
                                                                                      000
                                                                                                                         10
                     15
                                                  3.2105145E 00:
                                                                       5.22915938 00.
     21
                                                                       5.37633206
                     16
                           5.2662858£ 00,
5.3396775£ 00,
5.4125551£ 00,
                                                 5.2847678E 00.
                                                                                             5.3215642E 00: DATA
5.3944725E 00: DATA
     22
                                                                                     00.
                                                 5.3581336E 00.
5.4305795E 00.
                                                                                     001
     23
                                                                                                                         13
                     18
                             ,4125551E 00.
                                                                       5.44854618 00,
     24
                                                                                             5.4664545E QO. LATA
                       5.4943C512 00,
DATA (RASUN 117113
5.5551302E 00,
     25
                                                  5.5020982E
                                                                                                                 DATA
                                                                       5.9198334E 00.
                                                                                             5.93751065 00/
                                                                                                                         15
                                                 37, 72)/
5,5726917E 00,
     26
                                                                                                                 DATA
                                                                                                                         16
                     21
                                                                                                                         17
     27
                                                                       5499019316 00,
                                                                                             5.6076402E QO.
                                                                                                                 DATA
                           5.6250272E 00.
5.6939992E 00.
                                                 5.6423560E 00:
                                                                                             5.6768416E 00: DATA
                                                                       5. 6596273E 00.
     28
                                                                                             5.7451397E 001
     29
                     23
                                                 5.7111009E 00e
                                                                       5.7281475E 00c
                                                                                                                         19
                                                                                                                DATA
                     24
25
26
                                                                       5,7957994E
                             ,7620785E 00.
     30
                                                   . 7789646E 00.
                                                                                             5.8125837E 00:
                                                                                                                 DATA
                           5.8293188E 00,
5.8957930E 00,
5.9615924E
                                                                                                                         20
                                                                                      000
                                                                       5.86264535
                                                  5.84600598
                                                                00.
                                                                                             5.8792415E
                                                                                                           00.
                                                                                                                 DATA
                                                                       5,92877098
                                                  5.9123023E 00:
                                                                                             5.9452002E 00.
     32
                                                                                      00.
                                                                                                                 DATA
                                                                                                                         22
                                                                       5.99426916 00.
                             .9615921E 00.
                                                 5.9779460E 00:
                                                                                             5.9103566E 00. DATA
     33
                                                                                                                         23
                                                                                             6.8753951E CO:
```

6.0592300E 00.

DATA

	29 6:09153235 00; 6:10764285 00;	6.3237279E 00;	4 17540055 554	B . T .		
35 36	29 6.0915323E 00, 6.1076428E 00, DATA (RASUN (1), 1 = 73,108)/	9415315135 001	6.1397887E 00/	DATA	25 26	4
37	31 6.15582676 00, 6.17184306 00,	6,18783905 00,	6.2038160E 00,		27	6
38	32 6,2197755E 00, 6,2357188E 00,	6.2516477E 00:	6.2675633E 00:	DATA	28	
39	33 2.82105116-04, 1.61762246-02,	3.2062129E-02:	4.7941566E=021	DATA	29	
40	34 6.3816329E-02, 7.9688161E-02;	9,3558970E-02.	1.1143055Ee01,	DATA	30	
41	35 1,2730463E-01, 1,4318299E-01,	1,5906698E-01,	1.7493801E=01	DATA	31	
42	36 1.9085741E-01, 2.0676663E=01,	2,2268673E-01,	2.4861891E=01,	DATA	25	
43	37 2.5456428E=01, 2,7052405E=01,	2,8649931E=01,	3.0249112E=01.	DATA	33	
44	38 3,18500535-01, 3,34528446-01;	3+\$057594E=01.	3.6664402E=01.	DATA	34	
45	39 3.8273375E=01, 3.9884609E=01, DATA (BASUN 61;:1*109,144)/	4.1498209E-01,	4.3114285E201/	DATA	35	
47	41 4.4732944E-01, 4.6354293E-01,	4.7978436E-01,	4.9655595-01,	DATA	35	6
48	42 5.1235723E=01, 5.2869067Ee01,	5,4505730E-01,	5.6145833Ee01,	DATA	38	
49	43 5,7789485E-01, 5,9436805E-01;	6,1087861E-01,	6.2742731E=01	DATA	39	
50	44 6,44014855-01, 6.6064206E=01,	6,7730924E-01,	6.9401688E-01,	DATA	40	-
51	45 7.10765326-01, 7.27554898-01,	7,64385736=01,	7.6125797E=01.	DATA	41	
52	46 7.7817155E-01, 7.9512636E-01;	8.1212234E-01;	8.2915932E=01:	DATA	42	
53	4/ 0.4623715E=01, 0.6335554EG01,	8,50514346-01,	8.9771328E=01,	DATA	43	
54	48 9.14952126-01, 9.32230602-01,	9,49348595-01;	9.66905945=011	DATA	44	
55	49 9.8430248E=01, 1.0017378E 00,	1.0192121E 00,	1.0367249E 00/		45	
56 57	DATA (RASUN (1), [+145,180]/ 51 1.0542761E 00, 1.0718653E 00.	4 00040485 00	1 10015405 00	DATA	46	6
58		1.0894918E 00: 1.1603574E 00:	1.1071549E 00,	DATA	47	
59	52 1.1248540E 00, 1.1425885E 00, 53 1,1959939E 00, 1,2138593E 00,	1,1603574# 00; 1,2317543# 00;	1.1781595E 00: 1.2496775E 00:	DATA	69	
60	54 1.2476273E 00, 1.2856020E 00,	1.80359998 00,	1.3216194E 00,	DATA	50	
61	55 1.3396587E 00, 1.3577161E 00,	1.3757897E 00.	1.3938778E 00.	DATA	51	
62	56 1,41197888 00, 1,43009088 00,	1,4482123E 00,	1.4563418E 00.	DATA	52	-
63	57 1.4844777E 00, 1,5026183E 00,	1.92076248 00.	1.53890865 00,	DATA	53	
64	58 1.5570554E 00, 1.5752013E 00,	1.99334498 00,	1.6114848E 00.	DATA	54	
65	59 1.6296194E 00, 1.6477476E 00.	1.6658677E 00:	1.68397818 00/	DATA	55	
66	DATA (BASUN (1) 12181,216)/			DATA	56	6
67	61 1,70207726 00, 1,72016356 00,	1,73823315 00.	1.7562902E 00.		57	
68	62 1,7743269E 00, 1,7923436E 00,	1,81033826 00,	1.8283092E 00.	DAYA	58	
69	63 1.8462548E 00, 1.8641733E 00;	1,8820632E 00,	1.8999228E 00.	DATA	59	
70	64 1.91775G7E 00, 1.9355457E 00, 65 1.9887211E 00, 2.0063728E 00,	1.95330648 00.	1.9710319E 00,	DATA	60	
7 <u>1</u> 72	65 1.9887211E 00, 2.0063728E 00, 66 2.0590976E 00, 2.0765933E 00,	2 0239866# 00. 2 0940487# 00.	2.0415618E 00: 2.1114634E 00:	DATA	61	
73	67 2.1288371E 00, 2.1461700E 00,	2,16346162 00,	2.1114634E 00: 2.1807117E 00:	DATA	62	
74	68 2,1979202E 00, 2,2150869E 00,	2,23221136 00,	2.2492931E 00.	DATA	64	
75	69 2.2663320E 00, 2.2833277E 00,	2.3002799E 00.	2.3171884E 00/	DATA	65	
76	DATA (RASUN \$1) 1 = 217 252)/			DATA	66	6
77	71 2,3340530 00, 2,3508736 00,	2,36765018 00;	2.3843825E 00,	DATA	67	
78	72 2,40107106 00, 2,41771576 00,	2.4343169F 00.	2.4508750E 00.	DATA	68	
79	73 2,4673904E 00, 2,4838634E 00,	2-50029488 00.		DATA	69	-
80	74 2.5330358E 00, 2.5493466E 00, 75 2.5980536E 00, 2.6142184E 00,	2.56561918 00:	2.5818544E 00.	DATA	70	
81 82	75 2,5980536E 00, 2.6142184E 00, 76 2,6625165E 00, 2,6785547E 00,	2,6303496E QQ; 2,6945639E QQ;	2,6464486E 00: 2,7105452E 00:	DATA	71 72	
83	77 2.7264996E 00, 2.7424279E 00,	2,75833126 00,	2.7742104E 00.	DATA	73	
84	78 2,7900664E 00, 2,8059004E 00.	2.8217133# 00.	2.8373060# 00.	DATA	74	
85	79 2.85327975 00, 2,86903565 00,	2.8847747E 00.	2.9004981E 00/	DATA	75	
86	DATA (RASUN 61)11:25512881/			DATA	76	6
87	81 2,9162072E 00, 2,9319029E 00,	2,9475867E 00,	2.9632599E 00:	DATA	77	
88	82 2,9789239E 00, 2,9945800E 00,	3,01022996 00.	3.0258755E 00.	DATA	78	
89	83 3.0415185E 00, 3.0571609E 00;	3,07280468 00,	3.9884511E 00.	DATA	79	
90	84 3,1041024E 00, 3,1197602E 00;	3,1394260E 00,	3.1511011E 00,	DATA	80	
91	85 3.167871E 00, 3.1324855E 00, 86 3.2296681E 00, 3.2454294E 00,	3-19819756 00:	3.2139246E 00.	DATA	81	
93	86 3.2296681E 00, 3.2454294E 00, 87 3.2928328E 00, 3.3086781E 00,	3,2612097E 00, 3,8245476E 00,	3.2770104E 00: 3.3404424E 00:	DATA	82	
94	88 3.3563638E 00, 3.3723128E 00,	3.38829098 00.	3.40429918 00.	DATA	84	
95	89 3.4203389E 00, 3.4364114E 00,	3,45251848 00,	3.4686615E 00/	DATA	85	
96	DATA (RASUN (1) 11 289:324)/			DATA	86	6
97	91 3.4848424E 00, 3.5010627E 00,	3,9173243E 00,	3.5336286E QQ.	DATA	87	
98	92 3,54997728 00, 3,56637178 00,	3,5828132E 00,	3.5993031E 00,	DATA	88	
99	93 3,61584258 00, 3,63243268 00,	3.6490743E 00.	3.6657688E 00.	DATA	89	
100	94 3,68251695 10, 3,69931965 00,	3.7161777E 00.	3.7330918E 00.	DATA	90	
101	95 3,7500627E 00, 3,7670910E 00;	3-78417715 00:	3.8013212E 00,	DATA	91	
102	96 3,81852338 00, 3,83578478 00,	3,8531044E QQ,	3.8704831E 00.	DATA	92	
203	97 3.8879209E 00, 3.9054179E 00; 98 3.9382695E 00, 3.9760082E 00;	3.9229747E 00.	3.9405918E 00.	DATA	93	
304 105		3x99380828 00:	4.0116699E 00; 4.0837325E 00/	DATA	94	
106	PATA (RASUN 41):1:325,360;/	4.06562475 00:	4.88373256 00/	DATA	76	4
107	101 4.1019012E 00, 4.1201306E 00,	4,13841998 00,	4.35676848 00.	DATA	97	6
			10-0.5-15 801			

```
102
                      4,17517556 00,
                                         4.1935405E 00.
                                                                                4.2307393E 00: DATA
208
                                                            4.2121621E 00.
                       ,2493709E 00.
                                                             4.28679198
              103
                                                                                4.3055778E
109
                                         4.26805575
                                                                         00.
                                                                                             004
                                                                                                  DATA
                                                                                                         99
                                                             4,36221315
              144
                                   00,
                                          :3432904E
                                                                                4.3811774E
                        32441135
                                                      00 4
                                                                          004
                                                                                                  DATA
110
                                                                                             00.
                                                                                                        100
              105
                                                            4,43829958
111
                        4001813E
                                   00.
                                          .4192226E
                                                      00.
                                                                          00.
                                                                                4.4574106E
                                                                                                  DATA
                                                                                             900
                                                                                                        101
              106
                       .4765537E 00,
                                                             4 9149289E
                                                                         00,
                                                                                4.5341571E
112
                                         4.49572715
                                                      00.
                                                                                             00.
                                                                                                  DATA
                                                                                                        102
              107
                       .5934098E 00.
                                                             4,59198038
                                         4.5725849E
                                                                                4.4112939E
                                                                                                  DATA
                                                      004
                                                                         00.
                                                                                             001
113
                                                                                                        103
              108
                       ,6306233E 00.
                                                             4,66932098
                                                                         00.
                                         4.64996645
                                                      00 .
                                                                                4.6885846E
                                                                                                  DATA
114
                                                                                             000
                                                                                                        104
              109
115
                       .7080550E
                                         4.7274299E
                                                             4.7468067E
                                                                                4.76618325
                                                                                                  DATA
                                   00,
                                                      00.
                                                                         00.
                                                                                            00/
                                                                                                        105
                  DATA (RASUN 11), 1
4,7855567E 00,
                                       4.8049251E 00;
116
                                                                                                  DATA
                                                                                                       106
                                                            4,8242853E 00:
                                                                                4.8436344E 00:
              111
                                                                                                  DATA
                                                                                                       107
                                         4.8822882E 00.
                                                            4.90158705 00.
                                                                                                        108
                       .8629696E 00,
                                                                                4.9203634E 00/
118
                                                                                                  DATA
                     TA (BCSUN ([], [* 1, 36]/
=4,0353467E-01, =4,0223810E=01, =4,0080747E-01, =3.9924851E=01,
119
                                                                                                  DATA
                                                                                                        108
                                                                                                               6
120
                                                                                                  DATA
                                                                                                        109
                     e3.9754695E-01,
                                        -3.9571863E=01, -3.9375955E-01, -3.9167072E=01,
121
               122
                                                                                                  DATA
                                                                                                        110
                     -3,8945321E-01, -3,8710823E-01, -3,8463690E-01, -3.8204046E-01,
              123
                                                                                                  DATA
122
                                                                                                        111
              124
                     03,7932017E-01, 03,7647737E-01,
223
                                                           -3,7351337E-01, -3.7042953E-01,
                                                                                                  DATA
124
                       ,6722736E-01,
               125
                                        =3.6390832E=01, =3.6047401E=01, =3.5692598E=01,
                                                                                                        113
                                                                                                  DATA
                       ,5326582E-01,
                                                           =3.4561587E-01:
125
              126
                                        03.4949524E=01.
                     =3
                                                                               =3.4162938E=Q1,
                                                                                                  DATA
                                                                                                        114
              127
                       .37537536-01, -3.3334200E-01,
                                                           =3-2904459E-01, =3.2464705E-01,
                                                                                                  DATA
126
                                        e3.1555874Ec01,
127
               128
                     -3.2015119E-01,
                                                           #3,1087163E-01, #3.0609165E=01,
                                                                                                  DATA
                                                                                                        116
                       .0122076E=01, =2.9526085E=01; =2,9121399E=01, =2.8608219E=01/(8CSUN (I), I = 37, 72,/
.8086757E=01, =2,7557213E=01, =2,7019802E=01, =2.6474728E=01,
              129
128
                                                                                                  DATA
                     -3.01220765-01,
                                                                                                        117
129
                    ATA
                                                                                                  DATA
                                                                                                       118
                       .8086757E-01,
130
               131
                                                                                                  DATA 119
                       .5922205E=01.
                                                           =2,4795638E=01, =2.4221997E=01, =2,2462114E=01, =2.1863175E=01,
231
              132
                     -2
                                        *2.5362443E=01.
                                                                                                  DATA
                                                                                                       120
              133
                       .3641725E-01,
132
                                       =2.3055028E=01,
                                                                                                  DATA
                                                                                                        121
133
              134
                                                           =2.0032267E=01, =1.9411256E=01, =1.7518841E=01, =1.6878877E=01,
                       .1258424E-01, =2.0648053E-01;
                                                                                                  DATA
                                                                                                        122
134
              135
                     -1.8785220E=01.
                                        =1.8154354E=01,
                                                                                                  DATA
                                                                                                        123
              136
135
                     =1.6234645E=01, =1,5586333E=01;
                                                           =1,4934125E=01, =1.4278208E=01,
                                                                                                  DATA
                                                                                                       124
              137
                                                           -1,2290079E-01, -1.1621222E-01,
136
                     -1
                       .3618769E-01, -1.2955993E-01,
                                                                                                  DATA
                                                                                                        125
              138
137
                     =1.0949620E=01,
                                       -1.0275463E-01, =9,5989550E-02, =8.9202914E-02,
                                                                                                  DATA
                                                                                                        126
              139
                                                                                                        127
138
                     -8
                       .23966696-02,
                                       =7.5572761E=02, =6.8733074E=02, =6.1879493E=02/
                                                                                                  DATA
139
140
                       (8CSUN (1), 1= 73, 108)/
.5013913E-02, -4,8138255E-02,
                    ATA
                                                                                                  DATA
                                                                                                        129
              141
                     65
                                                           =4-1254341E-02, =3.4364010E-02.
                     =2.7469089E=02,
141
               142
                                        =2.0571392E=02.
                                                           -1.3672695E-02, -6.7747968E-03,
                                                                                                  DATA
                                                                                                        130
              143
                                                            1,38971496-02,
142
                      1,2067726E-04,
                                         7.0118638E=03,
                                                                                2.8774874E=02.
                                                                                                  DATA
                                                                                                       131
                       ,7643401E-02,
                                                                                4.81775796-02:
               144
                                                             4.1346350E-02.
143
                                         3.4501086E=02.
                                                                                                  DATA
                                                                                                        132
                       .4993153E-02.
              145
144
                                                            6,85707936-02,
                                                                                7.5329394E=02.
                                         6.1791467EG02,
                                                                                                        133
                                                                                                  DATA
              146
                                                                                1.02122325=01,
145
                      8
                       .2065575E=02,
                                                                                                        134
                                         8.87776475=02,
                                                            9.54638138-02.
                                                                                                  DATA
              147
                      1,08751456-01,
146
                                                            1,2191458E-01,
                                                                                                  DATA
                                         1.1534948E=01,
              148
                      1.3493976E=01,
                                         1:4139616E=01,
                                                                                1.54188216=01,
147
                                                            1.4781288E-01,
                                                                                                  DATA
                                                                                                        136
              149
148
                      1.60520466-01,
                                         1.6680793E=01.
                                                            1.7304903E-01.
                                                                                                       137
                                                                                1. $9242046=01/
                                                                                                  DATA
                  DATA (BCSUN (1), 1+109,144)/
1.85385346-01, 1.914773
149
                                                                                                  DATA
                                                                                                        138
              151
                                         1.91479356-01,
                                                                                2.9350106E=01,
150
                                                            1.9751644E-01.
                                                                                                  DATA
                                                             2.21113086-01.
               152
                       .0942976E=01,
                                         2.1530089E-01.
2.3818105E=01.
                                                                                2.2386484E-01.
151
                                                                                                  DATA
                                                                                                        140
              153
                       .3255467E=01,
                                                             2.43742456-01,
152
                                                                                2.6923732E-01.
                                                                                                  DAYA
                                                                                                        141
              154
153
                       .5466409E=01,
                                                             2,65307046=01,
                                                                                2.2052006E=01.
                                                                                                  DAYA
                                         2.60021186=01,
                                                                                                        142
              155
                                                                                2.9061301E=01.
3.8941805E=01.
154
                      2.75658706=01,
                                         2:8072141E=01,
                                                            2.8570670E-01.
                                                                                                  DATA
                                                                                                        143
               156
                                                             3.0484284E=01,
155
                       .9543883E=01,
                                                                                                  DATA
                                                                                                        144
                                         3.0018260E001
              157
                       :1390679E=01,
156
                                         3:1830757E=01.
                                                             3,2261894E-01,
                                                                                3.26839546=011
                                                                                                  DATA
                                                                                                        143
157
                      3,3096792E-01,
3,4653292E-01,
                                         3.3500275E=01:
3.5018071E=01;
                                                            3.5372877E-01,
                                                                                                        246
               158
                                                                                3.4276649E=01.
3.9717598E=01/
                                                                                                  DATA
158
               159
                                                                                                  DAYA
                                                                                                        147
                  DATA (BCSUN (1), 1=145,180,/
159
                                                                                                        148
                                                                                                  DATA
                                         3,6376340E=01,
                                                                                                        149
160
               161
                      3,60521226-01,
                                                             3,6690144E-01,
                                                                                3.6993422E=01,
                                                                                                  DATA
              162
                      3.7286070E=01.
3.8348331E=01.
                                                             3478390656-01.
                                                                                3.8099211E=01:
3.9028677E=01:
                                                                                                  DATA
                                                                                                       150
161
                                         3.7567988E=01.
               163
                                                             3+$813148E=01,
                                         3.8586337Ec01
162
                                                                                                  DATA
               164
                                                             3.9606816E-01,
4.0215399E-01,
163
                       .9232847E-01,
                                         3.9425584E=01.
                                                                                3.9776476E=01.
                                                                                                  DATA
164
               165
                                                                                                        153
                        9934498E-01,
                                          4:0080826Ea01:
                                                                                4.03361756=014
                                                                                                  DATA
               166
                       ,04490986-01,
                                                             4.06352428-01.
                                                                                4.07103925001,
165
                                         4 . 05481336-011
                                                                                                  DATA
                                                                                                        154
                                                                                4.0891016E201,
4.0879326E201,
               167
                       .0773559E-01.
                                                             4-0863892E-01.
                                                                                                  ATAC
                                                                                                        155
166
                                         4,0324725E=01.
               168
                       .0906129E-01,
                                                             4.09002796-01.
                                                                                                        156
167
                                         4.09092156=01,
                                                                                                  DATA
              169
                                                             4-07444508-01.
160
                                         4.08014106501,
                                                                                4.06755995-01/
                                                                                                  DATA
                       .0346366E=01,
                                                                                                       157
169
                  DATA
                        (PCSUN 117,1+181,216)/
                                                                                                  DATA 158
170
                      4.03948046-01.
                                                                                                        159
              171
                                                                                4.028133566010
3.9699444E_Q1.
                                         4.0502731E-014
                                                            40037762680011
                                                                                                  DATA
                       .01533165.01.
                                                            3,98623096.02.
                                                                                                  DATA
                       .9525100E-01.
.8714365E-01.
172
                                         3.9339341E-01:
3.8483749E-01:
                                                            3491422448-01,
                                                                                3.89338946-01,
3.79696006-01,
               173
                                                                                                  DATA
                                                                                                        161
              174
                                                            3,82421276-01,
                                                                                                  DATA
174
              175
                       ,7728257E-01.
                                                            3.7167551E-01,
                                                                                3.68723945-01,
                                         3,74522086=01,
                                                                                                  DAYA
                                                                                                        163
                       6566845E-01,
5242895E-01,
175
              176
                                         3.6251010E=01.
3.4887019E=01.
                                                            3.1925000E-01,
                                                                                 .$588927E=014
                                                                                                  DAYA
                                                                                                        164
              177
176
                                                            3.4521420 =- 01,
                                                                                3.41462165-01:
                                                                                                  DATA
                                                                                                       165
              178
                       37615436-01
177
                                         3.3367530E=01.
                                                            3.2964300 -01.
                                                                                3.25520206=01,
                                                                                                  DATA
                                                                                                       166
178
              179
                       .21308096-01,
(BCSUN (I),I
                                       3.1700812E=01,
+217,252)/
                                                            341262176 -01,
                                                                                                  DATA
                                                                                                        167
                                                                                3.88150416-01/
                                         17,252)/
2,9395867E-01;
                      A (BCSUN (1),1
3:03595574-01,
179
                                                                                                        168
                                                                                                  DATA
                                                            2.94241176-01.
180
               181
                                                                                2.8944461E=01,
                                                                                                  DATA
                                                                                                        169
```

```
181
                    2.8457046E=01.
                                      2,7962017E=01,
                                                        2. 2459527E-01,
                                                                          2.6949727E=01. DATA 170
                    2,6432767E=01,
             183
182
                                      2.5908801E=01.
                                                        2,5377951E-01,
                                                                           2.4840456E=01,
                                                                                           DATA
                                                                                                 171
             184
183
                      .4296376E=01,
                                                                           2.2626293E=01, DATA
                                      2.3745893E=01.
                                                         2,3189132E-01,
                                                                                                 172
184
             185
                      2057454E-01,
                                      2.1482771E=01.
                                                         2.09023975-01,
                                                                           2.9316476E=01, DATA
                                                                                                 173
                     ,9725157E-01,
185
             186
                                      1.9128593E=01,
                                                        1,8526940E=01,
                                                                           1.7920358E=01.
                                                                                           DATA
                                                                                                 174
             187
                     ,7309006Ec01,
186
                                      1:6693044E=01.
                                                                           1.5447933E=01.
                                                         1,60726335-01,
                                                                                           DATA 173
                    1.4819107E=01,
1.2265762E=01,
187
             188
                                       1.4186313E=01,
                                                         1.3549716E-01,
                                                                           1.2909478E=01,
                                                                                            DATA 176
             189
188
                                      1.1618729E=01.
                                                        1-0968540E-01,
                                                                           1.63153595-01/
                                                                                            DATA
                                                                                                 177
                 PATA (BCSUN (1), 1:253, 288)/
9,6593494E-02, 9:000677
189
                                                                                            DATA 178
190
             191
                                      9.0006777E=02,
                                                        8.8395028E-02,
                                                                           7.6759866E=02.
                                                                                            DATA 179
191
             192
                     .01028975-02.
                                      6.3425767E=02.
                                                        5.6729943E-02,
                                                                                            DATA 180
                                                                           5.0016927E=02.
             193
                     ,3288196E-02,
192
                                      3,6545,99E=02,
                                                         2,9789467E-02,
                                                                           2.3022513E=02+
                                                                                            DATA 181
             194
193
                     .6245880E-02,
                                      9,4610988E=03,
                                                         2,0698378E-03, =4.1262565E=03,
                                                                                            DATA 182
             195
194
                   -1.0925516E-02, -1.7726261E-,2, -2.4526794E-02, -3.1325399E-02,
                                                                                            DATA 183
195
             196
                   =3.6120353E=02, =4.4909944E=02, =5.1692390E=02, =5.8465935E=02, DATA 184
             197
                     .5228802E=02,
196
                   =6
                                     =7:1979242E=02, =7:8715439E-02, =8.9435987E=02,
                                                                                           DATA 185
197
             198
                   -9
                     2137855E=02, =9.8820382E=02, =1.0548136E=01, =1.1218898E=01,
                                                                                            DATA 186
198
             199
                   =1.1873131E=01, =1.2531657E=01, =1.8187302E=01, =1.3839891E=01/
                                                                                            DATA 187
199
                 DATA (BCSUN (1), 1=289,324)/
-1,4489252E-01, -1,5135211E-01, -1,5777597E-01, -1.6416234E-01,
                                                                                            DATA 188
DATA 189
             201
201
             202
                   -1
                     .7050945E-01, =1.7681557E=01, =1.8307675E-01, =1.8929729E=01;
                                                                                            DATA 190
             203
                   -1,9546897E-01, =2.0159220E-01, -2.0766493E-01, -2.1368521E-01,
202
                                                                                            DATA 191
303
             244
                   =2
                      ,1965112E=01, =2.2556072E=01; =2.3141175E=01, =2.3720286E=01,
                                                                                           DATA 192
             245
                   -2.4293147E-01,
                                     =2.4859582E=01, =2.5419384E-01, =2.5972352E=01,
204
                                                                                           DATA 193
205
             246
                     .6518281E-01,
                                     =2.7056965E=01, =2.9388201E-01, =2.8111783E=01,
                                                                                            DATA 194
206
             207
                   -2,8627509E-01, -2,9135172E-01, -2,9634585E-01, -3.8125555E-01,
                                                                                            DATA 195
             248
                   =3.06078946 .01, =3.1081415E=01, =3.1545936E=01, =3.2001277E=01,
207
                                                                                            DATA 196
208
                   =3.2447251E=01, =3.2883684E=31, =3.3310398E-01, =3.3727187E=01/
                                                                                           DATA 197
                   TA (BCSUN (1), 1=329,360)/
-3,4133898E-01, =3,4530342E=01, =3,4916343E-01, =3.5291724E=01,
209
                                                                                            DATA 198
210
             211
                                                                                           DATA 199
             212
                     .5656316E=01,
                                     =3.6009947E=01, =3.6352450E-01, =3.6683662E=01,
                                                                                            DATA 200
                      .7003426E-01.
212
             213
                                     =3.7311587E=01, =3,7607995E-01, =3.7892501E-01,
                                                                                            DATA 201
             214
                   -3.8164957E-01, -3.8425236E-01, -3.8673164E-01, -3.8968640E-01,
213
                                                                                           DATA 202
             215
                   -3
214
                     ,9131523E=01, =3,9341690E=01, =3,9539029E=01, =3,9723438E=01,
                                                                                           DATA 203
                     ,9894815E-01,
215
             216
                   =3
                                     =4.0053076E=01, =4.0198134E=01, =4.8329918E=01,
                                                                                           DATA 204
             217
                     . 0448353E-01.
                   04
                                     =4.0553379E=01, =4.0644935E-01, =4.0722969E=01,
216
                                                                                           DATA 205
                     .07874326-01,
                                     =4.0938291E=01, =4.0875501E=01, =4.0899047E=01, =3.0905036E=01, =4.0897503E=01, =4.0856252E=01/
             218
                   -4
                                                                                           DATA 206
218
                   -4.0908902E-01,
                                                                                           DATA 207
                   TA (BCSUN (1), 1=361,368)/
=4,0811310E=01, =4.0752703E=01, =4,0680458E=01, =4.0594615E=01,
219
                 DATA
                                                                                            DATA 208
220
             221
                                                                                            DATA 209
221
             222
                   -4.0495216E-01,
                                     =4.0382315E=01, =4.0255955E=01, =4.0116213E=01/
                                                                                           DATA 210
                 PATA (RSUN (1), I=
9.8397228E=01,
                                      9.8396422Ec01,
222
                                                                                            DATA
                                                                                                 210
223
             231
                                                                           9.8396435E=01:
                                                        9,8396168E-01,
                                                                                                 211
                     .8397195E=01,
224
             232
                                      9.8348425E=01,
                                                        9,84000898-01,
                                                                          9.8402158E=01.
                                                                                           DATA 212
                      .8404606E-01,
225
             233
                                      9.8407387E=01,
                                                        9,8410527E-01,
                                                                          9.8414032E=01, DATA 213
                     ,8417910E=01.
             234
226
                                      9.8422169E=01,
                                                        9.8426839E-01,
                                                                                           DATA 214
                                                                           9.8431948E=01,
             235
                      ,8437522E=01.
                                      9.8443603E=01,
227
                                                        9.8450199E-01,
                                                                                            DATA 215
                                                                           9.8457333E=01,
                      .8465022E-01,
                                      9.8473287E=01,
             235
228
                                                         9,8482134E-01,
                                                                           9.8491576E=01,
                                                                                            DATA 216
              237
                     .8501614E=01,
.8547724E-01,
                                      9.8312256E=01,
                                                                           9.8535321EgQ1,
229
                                                        9,8523495E-01,
                                                                                            DATA 217
             238
                                                        9.8574208E-01.
                                                                           9.8588227E=01,
                    q
                                        .8560698E=01,
230
                                                                                            DATA
                                                                                                 218
             239
                      .8602720E=01.
231
                                      9.8617666E=01,
                                                        9,8633018E-01,
                                                                           9.8648738E=01/
                                                                                           DATA 219
                   7A (RSUN 61) 11 9 86647926-01,
232
                                      37, 72)/
9,8681127E=01,
                                                                                            DATA 220
             241
                                                        9,86977458-01,
                                                                           9.8714635E=01.
                                                                                            DATA 221
234
             242
                                      9,8749187E=01,
                                                        9.8766859E-01,
                                                                           9.8784821E=01.
                      .87317884-01.
                                                                                            DATA 222
             243
                                      9.8821699E=01.
9.8899803E=01.
                                                                          9.8859978E=01.
9.8941292E=01.
235
                     .88030925-01,
                                                        9.8840656E-01,
                                                                                            DATA 223
             244
                     .8879688E-01,
                                                        9.8920333E-01.
236
                                                                                            DATA 224
             245
                      .8962688E-01,
237
                                      9.8984531E=01,
                                                        9,90068188-01,
                                                                           9.9029548E=01,
                                                                                           DATA 225
                     ,9052714E-01,
238
             246
                                      9.9076318E=01.
                                                        9.9100325E-01,
                                                                           9.9124706=011
                                                                                           DATA 226
                     ,9149435E=01.
                                                                                           DATA 227
239
             247
                                      9.9174487E=01,
                                                        9,9199814E-01,
                                                                           9.92253715=011
             248
                     .9251119E=01,
                                                        9.9303019E-01.
9.9407827E-01.
                                                                           9.9329128E=01.
                                      9.9277008E=01:
                                                                                            DATA 228
240
241
                                      9.9381540E=01,
                                                                           9.9434178E=01/
                                                                                            DATA
                                                                                                 229
                      (RSUN 41) 1=
                                      73,108,/
242
                                                                                            DATA
                      .9460602E=01,
             251
                                      9.9487112E=01,
                                                                           9.9540442E=01,
243
                                                        9,9513720E-01,
                                                                                            DATA 231
             252
                     ,9567293E-01,
                                                                           9.9648787E=01.
244
                                      9.9594291E=01,
                                                        9.9621451E-01,
                                                                                            DATA 232
                     ,9676314E-01.
                                                        9.9731977E=01,
245
             253
                                      9,9704041E=01,
                                                                          9.9760128E=01.
                                                                                           DATA 233
                      97884946-01,
246
             254
                                      9.9817088E=01.
                                                        9,9845878E-01,
                                                                           9.9874847E=011
                                                                                           DATA 234
                                                        9.99625656-01,
             255
                                                                           9.99919475=011
                                                                                           DATA 235
247
                      $903966E=01,
                                      9.9933223E=01.
248
             256
                    1.0002133# 00.
                                      1:0005067E 00,
                                                        1,00079938 00,
                                                                          1.8010908E 00.
                                                                                           DATA 236
             257
                    1.00138098 00,
249
                                      1,0016692E
                                                        1.0019558E 00,
                                                  00.
                                                                           1.0022405E 00.
                                                                                           DATA 237
250
             258
                     ,0025235E
                                00,
                                      1,0028047E 00.
                                                        1.0030841E 00.
                                                                          1.0033619E 00.
                                                                                           DATA
                                                                                                 238
251
                    1.00363838 00,
                                      1.0039133E
                                                   00.
                                                        1.0041872E 00,
                                                                           1.8044600E 00/
                                                                                           DATA 239
                 DATA (RSUN 11), 1:109,144)/
1.0047320E 00. 1.0050933E 00;
252
                                                                                           DATA
                                                                                                 240
                                                        1.00327408 00,
                                                                          1.8055444E 00, DATA 241
```

254 255	262 263		.0060845E 00.	1.00635428 00,	1.8066237E 00.	DATA 242
256	264		.0092202E 00.	1.00742838 00.	1.8076943E 00:	DATA 243 DATA 244
257	265		0092379E 00;	1.00948348 00.	1.9097250E 00.	DATA 245
258	266	1.00996278 00, 1	:0101963E 00.	1,01042588 00.	1.0106514E 00.	DATA 246
259	267		.0110913E 00.	1-0113036E 00,	1.0115165E 00.	DATA 247
260 261	268 269		.0119288E 00.	1.0121305E 00,	1.0123295E 00,	DATA 268
262		A (85UN (1), [+14	0127207E 00.	1,0129130E 00.	1.9131031E 00/	DATA 249 PATA 250 6
263	271		.0134772E 00;	1,0136607E 00,	1.8138415E 00,	DATA 251
264	272	1.01401925 00, 1	:0141933E QO.	1.0143636E 00.	1.0145297E 00.	DATA 252
265	273		.0148479E 00,	1.0149995E 00,	1.8151458E QO.	DATA 253
266 267	274 275		.0154223E 00.	1.01555238 00.	1.8156767E 00.	DATA 256
268	276		.0159094E 00.	1.0160179E 00.	1.0161212E 00: 1.0164873E 00:	DATA 255 DATA 256
269	277		.0166457E 00.	1.01671978 00:	1.0167903E 00,	DATA 257
270	278	1.0168578E UO, 1	:0169225E 00.	1.01698418 00.	1.81704225 000	DATA 258
271	279		.0171474E 00.	1.0171939E 00,	1.01723585 00/	DATA 259
272 273	281		10173046E 00;	1,0173310E 00,	1 01-15105 00	DATA 260 6
274	282		0173759E 00;	1,0173310E 00, 1,0173790E 00;	1.0173518E 00: 1.0173761E 00:	DATA 261 DATA 262
275	283		0173524E 00.	1-0173317E 00.	1.0173053E 00:	DATA 263
276	284	1.01727336 00, 1	:0172358E 00;	1-0171933E 00.	1.8171459E 00,	DATA 264
277	285		·01703785 00,	1,01697778 00,	1.0169140E 00:	DATA 265
278 279	286 287		10167771E 00:	1.01670428 00.	1.0166281E 00.	DATA 266
280	268		:0164661E 00;	1.01637988 00.	1.0162897E 00; 1.0158843E 00;	DATA 267 DATA 268
281	289		.0156519E 00,	1.0155277E 00.	1.0153980E 00/	
282	DAT	A (ASUN \$1), 1 = 21	7,2521/			DATA 270 6
283	291		.0151224E 00,	1,0149765E 00,		DATA 271
284 285	292 293		:0145074E 00.	1.01434125 00.	1.0141705E 00.	DATA 272
286	294		.0138170E 00.	1.0136345E 00: 1.0128794E 06:	1.8134496E 00, 1.8126851E 00,	DATA 273 DATA 274
287	295		:0122904E 00.	1.01208995 00.	1.8118871E 00;	DATA 275
288	296		:0114735E 00:	1.01126226 00.	1.8110476E 00.	DATA 276
289	297		.0106082E 00.	1-0103830E 00.	1.0101539E 00.	DATA 277
290	298		:0096841E 00:	1.0094433E 00.	1.8091986E 00.	DATA 278
291 292	. 299	1.0089502E 00, 1 A (RSUN 61), [ = 25	10086979E 00.	1.00844235 00.	1.0081834E 00/	DATA 279 DATA 280 6
293	361		0076574E 00,	1.0073909E 00,	1.6071227E 00.	DATA 280 6
294	305	1.00685318 00. 1	.0065828E 00,	1.00631156 00,	1.8060404E 00.	DATA 282
295	303	The state of the s	.0054973E 00,	1,0032257E 00,	1.0049539E 00,	DATA 283
296	304 305		.0044093E 00,	1.0041361E 00: 1.0030339E 00:	1.0038622E 00.	DATA 284 DATA 285
298	306		:0033112E 00.	1.0030339E 00.	1.8027552E 00: 1.8016241E 00:	DATA 285 DATA 286
299	307	1.0013371E 00. 1	.0010484E 00,	1.00075826 00,	1.0004667E 00.	DATA 287
300	348	1.00017435 00.	.9988106E=01;	9,9958749E-Q1,	9.9929404E=011	DATA 288
801	309	9.9900112E=01, A (RSUN     1)   1 = 2	.9870922E=01,	9,9841861E-01,	9.9812961E=01/	
502 503	311	9:97842536-01,	9755777E=01.	9.9727525E-01,	9.9699497E201,	DATA 290 6
804	312		9644115E=01,	9.9616744E-01.	9.9589570E=01.	DATA 292
805	313	9.9562576E-01, 9	. 0535748E=01.	0-9509069E-01.	9.9482525E=011	DATA 293
\$06	314	9,9456099E=01.	.9429781E=01.	9,9403556E-01,	9.9377412E=011	DATA 294
807	315	9,93513415=01,	.9325327E=01.	9.92993888-01	9.9273541E=01/	DATA 295
#08 <b>5</b> 09	316 317	9.9247799E=01, 9.9146394E=01, 9	.9222166E=01.	9,91966968-01,	9.9171425E=01, 9.9073144E=01,	DATA 296 DATA 297
\$10	318	117400.404091	9026196Ee01,	9.90033706-01.	9.89809878501	DATA 298
811	319	9.89590575-01,	.8937587E=01.	9,89165686=01,	9.8895993Ee01/	DATA 299
312 813	DAT	A (RSUN (1), 1=3	5,3601/			DATA 300 6
813	321	9.8875850£-01, 9.8799314E-01, 9	.8856127E=01,	9.8836806E-01,	9. 817875E=01.	
815	323	9.87284256-01,	.8781113E=01,	9,8763243E-01, 9,8694722E-01,	9.8745687E=01, 9.8678283E=01,	DATA 302 DATA 303
\$16	324	ia. Cailes A	18646216EG01.	9.86306235-01.	9.8615371E=01.	DATA 304
817	325	9,8400493E-01,	.8586026E=01;	9.8572004E-01.	9.85584625=01.	DATA 305
818	326	9,85454335=01,	:8532962E=01.	9.85210555-01.	9.4509732E=01:	DATA 306
819	327	9.8499003E=01,	.8488884E=01,	9.8479371E-01.	9.8470457E=01.	DATA 307
\$20 \$21	329 329		:8454409E=01,	9.84472 05-01.	9.8440647E001,	DATA 308
822		A (RSUN (1):1:36	1,3681/	9.84239918-01.	9.8419408E501/	DATA 309 DATA 310 6
\$23	331	9,8415266E-01,	.8411539E=01,	9,84082078-01,	9.8405252E=01.	DATA 311
824	332	9.84026625-01.	.8400398E=01:	9,8398503E-01,	9.4396991E=01/	DA" A 312
\$25 \$26	DAT	A (RAMODNII) 114	1, 36,/	¥ 33484705 66		DATA 312 6
960	341	2,79700546 00, 3	.0065657E 00,	3,2203079E 00,	3.4413728E 00.	UATA 313

```
$27
                 342
                         3.67288904 00.
                                                3,91736028 00.
                                                                      4,17575376 00.
                                                                                            4.4464078E DO: DATA 314
628
                 343
                           .72694198 QQ.
                                                5.0042507E 00:
                                                                      5,27737848 00.
                                                                                            3.339865E 00. DATA 319
                           . 78791498 . 00 .
                                                                      6-2492165$ 00a
                                                6.82382386 00.
$29
                 344
                                                                                            1.43809995501: DATA 316
                 345
                           .94953308-01
                                                                      8-19396078-01,
830
                                                6.0010705Ec01.
                                                                                            1.8320779E 00: DATA 317
                         1,2460361E 00.
2,1141299E 00.
                                                                      1-88094758 00.
2-93939728 00.
331
132
                                                 4634126E 00
                 346
                                                                                              of Spersage.
                                                                                                                 DATA
                                                2: 32767368 .00
                 347
                                                                                            2.8494050E 00. DATA
                                                                                                                        319
                 348
                           9593512E DD.
                                                                      3.36784415 001
333
                                                3.17132078 95:
                                                                                            3.41163278 00: DATA 320
                                               4,0901636£ 00,
371 721/
5.1547883E 00,
                 349
                          3.84517858 00.
                                                                      4.84671638 00.
334
                                                                                                                 DATA 321
                                                                                            4.61276006 004
                     DATA (RAMOQN61) 18
4.88399138 00.
5.92068598 00.
835
836
                                                                                                                 DATA
                                                                                                                        322
                                                              00,
                                                                      5;4198423E 00.
                                                                                            5.6758810E 00.
                                                                                                                 DATA 323
                                                5.15574818 00;
7.52526766001;
1.61636918 00;
2.47368678 00;
837
830
839
                 352
                                                                      9.93564966=02.
                                                                                            3.2019216Ea01.
                                                                                                                 DATA
                                                                                                                        324
                 353
                                                                                            1.5831189E CO4
2.8498719E CO4
2.9498719E CO4
                           ,3722160E-01,
                                                                      9,67934296=01,
1,33387528 00,
                                                                                                                 DATA 325
                 354
                                                                      2,69133838 00.
3,96117478 00.
                 355
                           . 24494435
                                                              004
                                        00.
840
                                                                                                                 DATA 327
                          1191518E 00,
0326588E 00,
0424532E 00,
                 356
                                                3.33735156
141
                                                              00
                                                                                            3.7925134E 00,
                                                                                                                 DATA
                                                                                                                        328
                                                4.2817954E 00.
5.3215379E 00.
                                                                      4.53858535
5.57440638
842
843
                 357
                                                                                     004
                                                                                            4. 8001168E 00.
                                                                                                                 DATA
                 358
                                                                                            5.8105349E 00, DATA 330
4.5177113E=01/ DATA 331
344
                                                4.3424618E=03,
                 359
                                                                      2,2900669E=01.
                         A (RAMOON(1), 1:
6,7168888E-C1,
1.5651889E 00,
545
846
847
                                                7311081/8,90617338=01,
                                                                                                                 DATA 332
                                                                      1,3091429E 00,
1,9778808E 00,
                                                                                                           100
                                                                                            1.3274022E
                                                                                                                 DATA 333
                 362
                                                1,7621278E 00.
                                                                                            2.1923402E 00.
                                                                                                                 DATA 334
                           .40577278 00.
.2698447E 00.
                                                              00.
348
                 363
                                                2,61889426
                                                                      2,8328710E 00.
                                                                                            3.8492544E 00.
                                                                                                                 DATA 335
                 365
849
                                                                      3.7306667E 00.
4.7405393E 00.
                                                              00,
                                                                                            3.9732453E 00.
                                                3,49647088
                                                                                                                 DATA 336
                           ,2238478E 00,
850
                                                4.4806591E 00,
                                                                                            4.9996830E 00.
                                                                                                                 DATA 337
                           . 2545936E 00,
                                                                      5.74375686 00.
851
                 366
                                                5.5029118E 00,
                                                                                            5.9773660E 00:
                                                                                                                 DATA 338
$52
$53
                 367
                                                1.4654726E=01.
1.0304083E 00.
                                                                      3.68292338-01,
1.25094948 00,
                           ,2056558E 00,
                                                                                            5.8905900E=01;
1.4706440E 00;
                                                                                                                 DATA 339
                 368
                           ,0958262E-01.
                                                                                                                 DATA 340
                 369
                           .6887558E 00:
854
                                                1.90471546 00.
                                                                      2.11837058 00,
                                                                                            2.4301160E 00/
                                                                                                                 DATA 341
                     DATA (BAMOON(1), 181
2,54092848 00,
3,41068418 00,
                                               89:1441/
2.7523217E 00;
855
856
                                                                                                                 DATA
                                                                                                                        342
                 371
                                                                      2,96624732 00.
3,8903978E 00.
                                                                                            3.1847398E 00.
                                                                                                                 DATA
                 372
357
                                                3.6454549E 00:
                                                                                            4.1452163E 00.
                                                                                                                 DATA 344
                 373
                           4077133E 00.
                                                                      4.9387830 00.
5.92131858 00.
                                                                                            5.1979166E 00.
6.1464626E 00.
858
                                                4,6738819E 00i
                                                                                                                 DATA 345
859
                           4483739E 00,
                                                5.6892442E 00.
                                                                                                                 DATA 346
                 375
                                                3:01999996-01,
860
                           .3807751E-02,
                                                                      5-19736396-01,
                                                                                            7.38268296-011
                                                                                                                 DATA 347
                 376
                                                                                            1.6190865E 00.
2.4697140E 00.
861
                           3805252E=01,
                                                1.1787943E OG.
                                                                      1.39955448
                                                                                     00.
                                                                                                                 DATA
                                                                                                                        348
$62
                                                                      2,26117798 00.
                         1,8362283E 00,
                                                2.05026656
                                                              00.
                                                                                                                 DATA 349
                 378
363
                           .6773618E CC.
                                                2.8862322E 00.
                                                                      3.0989094E 00,
                                                                                            3.3182483E 00.
                                                                                                                 DATA
                                                                                                                       350
                 179
                                               3.7876285E 00;
45.180;/
4.8529044E 00;
                                                                                            4.3057662E 00/
                         3.5470646E 00.
                                                                      4.0409172E 00.
864
                                                                                                                 DATA 351
                        TA (RAMOUNAL) . 1
4:5783913E 00,
865
866
                                                                                                                 DATA 352
DATA 353
                 381
                                                                      5.1229479E 00,
                                                                                            5.3836206E 00.
367
368
                 382
                           ,6325809E
                                                5.8699746E
                                                                                            3.51556556502,
8.9880854E0012
                                                                      6,0976617# 00,
                                        00.
                                                              00.
                                                                                                                 DATA
                                                                                                                        354
                                                                      6.81950828-01,
1.9569799E 00,
                           .5168565E-01,
                                                4.6662952E=01.
                                                                                                                 DATA 355
                                                1:3372635E 00.
2:2019010E 00.
                 384
369
                          ,1174525E 00,
                                                                                            1.7750915E 00.
                                                                                                                 DATA
                                                                                                                       356
                                                                      2 4 6 1 0 0 2 0 3 5 0 0 ,
3 4 2 3 8 4 4 9 1 5 0 0 ,
4 4 5 8 7 8 7 0 5 0 0 ,
                 385
                           ,9902965E 00,
                                                                                            2.6156649E 00.
570
                                                                                                                 DATA
                                                                                                                        357
                 386
                           .8205537E 00,
                                                                                            3.4575562E QQL
171
                                                3.0271804E 00.
                                                                                                                 DATA
                           . 6876186E 00,
172
                                                3.9310746E 00.
                                                                                            4.4590533E 00.
                                                                                                                 BATA
                 388
                         4.7371587E 00,
5.8006341E 00,
                                                                      5.28925446
                                                5.0162154E
                                                                                              . 9513659E 00.
173
                                                                                     00.
                                                                                                                 DATA
                                                               00.
                                                                                                                        360
874
                                                                      6,2649884E 00,
                                                6.0377449E 00.
                                                                                            2.02126568601/
                                                                                                                 DATA 361
75
                           1846963E-01,
                                                81,216)/
6,3334869E=01,
                                                                                                                 DATA
                                                                                                                        362
                                                                      8.4859412E-01,
1.7200073E 00,
                                                                                            1.8651870E 00.
                                                                                                                        363
$77
                 392
                           .2832023E 00,
                                                1:50190265 00.
                                                                                            1.9361005E 001
                                                                                                                 DATA
                                                                                                                        364
                 393
                           .1490654E 00,
                                                                      2.5645097E 00.
3.3895370E 00.
178
179
                                                2:3584241E
3:1782726E
                                                                                            2.7684807E 00.
3.6091788E 00.
                                                                                                                 DATA
                          3,8401798E 00,
                                                                      4, 44330118 OC.
5,44102778 OO.
$80
                 395
                                                4,0847234E 00.
                                                                                             4.41382385 00.
                                                                                                                 DATA
                         4.8913808E 00,
5.9517.47E 00,
5.77915265-01,
881
                                                                                            5.8023497E 001
                 396
                                                5.1692654E 00.
                                                                                                                 DATA 368
                 397
                                                6,1899199E 00,
7,9536866Ec01,
                                                                                            3.5861072E=01,
1.2303197E 00,
882
                                                                      1.75940828-01,
                                                                                                                 DATA
                                                                      1.0126138E 00.
883
                 398
                            44639505 00, 1.6661378E 00,
(RAMOUN4!, 1+217, 252,/
3075052E 00, 2,5154088E 00,
884
                 399
                         1.44839505 00,
                                                                      1.8825163# 00.
                                                                                            2.9965220E 00/
                                                                                                                 DATA 371
885
                                                                                                                        373
                         2.30750528 00,
                                                                      2.72086898 00,
                                                                                            2.7252012E 00.
                                                                                                                 DATA
                         3.1303161E 00,
4.0088162E 00,
5.0507910E 00,
                                                                      3.7526906E 00.
4.5121326E 00.
5.3870355E 00.
2.7745556E-01.
587
                 402
                                                3.3385897E 00.
                                                                                            3.7753224E 00: DATA 374
                                               4.2545303E 00,
5.3217334E 00,
4.6039676E=02,
                                                                                            4.2790814E 00.
5.8436862E 00.
5.8388029E201.
1.3886379E 00.
588
                 403
                                                                                                                 DATA
                                                                                                                        375
889
                 404
                                                                                                                 DATA
                                                                                                                        376
                         6,09081615
                                        00,
                 405
                                                                                                                 DATA 377
                                                 .4858350E-01,
                                                                       +3690174E 00.
591
                 406
                            2713380E=01,
                                                                                                                 DATA
                           .6071663E 00,
                                                1:8240411E 00.
2:6674298E 00.
192
                                                                                            2.2506736E 00+
                 407
                                                                      2,03865935 00,
                                                                                                                 DATA 379
                           4400822E 00.
2899434E 00.
(RAMOON(1).1.
893
                 408
                                                                      2,67377378 00,
                                                                                            3.0806434E 00+
                                                                                                                 DATA 380
894
                 409
                                                                      3.7243915E 30,
                                                3.5038080E CO.
                                                                                            3.9535604E 00/
                                                                                                                 DATA 381
895
896
                     DATA
                                               $3.263)/
4.44109778 00.
                 411
                                                                      4,6978631E 00.
5,7376647E 00.
                                                                                            4.9596947E 00:
                           .2226363E 00,
98
                 412
                                        00
                                                                                            5.0857832E 00.
6.41053785001
                                                5,48287198
                                                              00
                 413
                                               1:0933174E 00,
                                                                      4-12089408-01,
 699
                           .67999325-01,
                                                                      1.8169255# 00,
                                                                                            1.5384103E 00, DATA
```

102   13   4800791 00	00 4:		,7572466E	00,	1:973032		2,1856790 3,0185846		2.39553 3.22940				
103   418   13440022   001   4.6107044   001   3.1924641   001   3.1371718   000   014   391   001   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017   017					3.667282	18 00			4.13698	58E 00.			
Data   Sancophilic   1288, 324 /	03 4:				4.638708	4E 00,	4,8962465	E 00.	5.15368	38E 00.	DATA		
421						\$5 30 t	2,699993	i å ÓÓ'	6.13777	19£ 00\			
00 422 1,02706160 00, 12340678 00, 1,4022078 00, 1.4692006E 00, DATA 389 00 423 1,7010178 00 2,1513138 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,7235118 00; 2,72351			A2075476	102.	3.104113	3F=01.	5.4019.21	S-01.	7. 78382	475-01.	DATA	372	6
### ### ### ### ### ### ### ### ### ##			.00706162	00,	1.234667	DE OO.	1.460208	00.	1.68260				
009   428   2.73831246   001   2.8446990   001   3.3596284   001   3.86981876   001   DATA 389	08 4	23 1	.90101156	00,	2,115131	8E 00;	2,3253011	E 00.	2.53251	11E 00.	DATA		
111 426 4; 97407976 00, 4, 83973516 00; 9, 9743576 00; 1, 97387961 070 1, 97387961 071 0714 0715 00; 67743576 00; 1, 97387961 0714 0714 0715 0714 0715 0715 0715 0715 0715 0715 0715 0715					2.944699	0E 00.			3.86851	87E 004	The same of the same of		
\$12	22												
143	and the second s				5.840517	DE 00.			1.07787	085-02.			
### 1,1926086 00. 1,300,370E 00. 1,40098395 00. 1,4272073E 00. DATA 402 #### 402	The state of the s				4.712638	25-01			9.24608	35E-01.			
### DATA (##MODNI[] [1932] 350]/ ### 101	The second secon												
17	15	DATA	INGOMARI	11010	325,3601/					756			_6
### ### ### ### ### ### ### ### ### ##	10	12 2	,04404038	00,									
420 435 7,7462256 00, 62412438 00, 4,23473538 00, 5.4437166 00, DATA 406 421 436 4,15125415-01, 6,36564025-01, 3,59335586-01, 1.8338566 00, DATA 407 422 437 1,3055615 00, 1.3348678 00, 2,59335586-01, 1.8338566 00, DATA 408 423 436 2,15137248 00, 2,402038 00, 2,8044878 00, 2.8028438 00, DATA 409 423 436 2,15137248 00, 2,402038 00, 2,8044878 00, 2.8028438 00, DATA 410 425 DATA (8AMONHI, 1836, 368) 427 442 4,044186 00, 5,1045028 00, 3,4020666 00, 3,41736372 00, 3,620266 00, DATA 412 425 DATA (8AMONHI, 1836, 368) 427 442 4,044186 00, 5,1045028 00, 3,4500005 00, 4.62037166 00, DATA 413 427 442 4,044186 00, 5,1045028 00, 3,4500005 00, 4.62037166 00, DATA 413 428 DATA (BAMONHI, 18 36, 368) 439 7,7228628-02, 2,5933508 00, 3,45062352 00, 5,7162206 00, DATA 414 429 451 7,7228628-02, 2,5933508 00, 2,6933508 01, 03.869892501, DATA 418 431 453 0,452 1,41518856-01, 2,41191846-01, 02,87589350-01, 03.869892501, DATA 418 433 455 1,41518856-01, 2,102225002, 3,8047558-01, 03.1217908501, DATA 418 435 457 1,41518856-01, 2,105988001, 3,8047558-01, 03.1217908501, DATA 418 435 459 2,7201818-01, 2,20595498-01, 1,70633798-01, 1,2127908501, DATA 418 435 459 2,7201818-01, 2,20595498-01, 1,70633798-01, 1,153890601, DATA 418 436 459 3,1063998601, 3,2169978-01, 3,206378-01, 1,213890601, DATA 428 437 459 4,41518856-01, 2,2795498-01, 1,70633798-01, 1,153890601, DATA 428 439 4,117818-01, 1,106398801, 3,206978-01, 3,206978-01, 1,153890601, DATA 428 439 4,117818-01, 1,106398801, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,206978-01, 3,2069			72718536	08.			4-247A70	# 00.					
### ### ### ### ### ### ### ### ### ##		34 4	.7490876E	00.			5.284735	E 00.	5.54137	16E 00.			
### 1		35 5	.7876225E	CO.					1.93596	60E=01,			
225					6,365646	0E=01;			1.88386	36E 00,			
224			,3095361	00.									
DATA (\$ANOQNE1, 1   354, 368)  427			10147724	00.			The second second second second						
427 442 4.0149435 00. 5.18077986 00. 5.4506232 00. 5.7102290E 00. DATA 414 429 451 9.7024026-02. 2.5943608602. 64.2814948-02. 61.140890E0.1. DATA 415 430 452 4.51609660.1. 22.41998660.1. 62.47843908-01. 62.27908E0.1. DATA 415 431 453 -3.2221378-013.01.4608-01. 62.47843908-01. 62.227908E0.1. DATA 416 432 454 1.45808660.1. 67.1324022E022. 3.8041755E0.3. 7.5234798E0.1. DATA 416 433 455 -3.4221378-013.01.4608-01. 62.47843908-01. 62.227908E0.1. DATA 416 434 456 3.1603968-01. 3.2186908E0.1. 2.4884928E-01. 2.8582840E0.1. DATA 419 434 456 3.1603968-01. 3.2186908E0.1. 3.4884928E-01. 2.8582840E0.1. DATA 419 435 457 2.720842E0.1. 2.959449E0.1. 1.76633998-01. 1.538909E0.1. DATA 421 436 436 438 4.8702778-02. 42.202388E0.2. 69.2522166-02. 61.599213E0.1. DATA 422 437 459 -2.2510878-01. 2.7708077E0.1. 30.470818-01. 3.022977E0.1. DATA 423 438 DATA (BUMONNI): 3.77.72) 440 462 -1.086716E-01. 2.77018077E0.1. 30.470818-01. 3.2028428E0.1. DATA 425 440 462 -1.086716E-01. 9.31174711E0.2. 4.87044278-02. 1.41224E0.1. DATA 425 441 443 1.7494316E0.1. 2.303354E0.1. 2.71738E0.1. 2.809178E0.1. DATA 427 442 464 3.4875462E0.1. 3.1866277E0.1. 3.0699350E0.1. 2.809178E0.1. DATA 427 444 466 -2.6887377E-03. 97.886630E0.2. 01.189878E0.1. 2.809178E0.1. DATA 427 445 466 468 -2.6887377E-03. 97.886630E0.2. 01.189878E0.1. 01.74 433 446 469 -2.6887377E-03. 97.886630E0.2. 01.18988E0.1. 01.74 433 447 469 -6.492288E0.2. 97.47276E0.1. 01.78398E0.1. DATA 433 448 DATA (BUMONNI): 1.2.5303048E0.1. 01.829738E0.1. 01.74 433 449 471 2.7921346E0.1. 2.5830346E0.1. 01.338548E0.1. 01.743780E0.1. DATA 433 449 471 2.7921346E0.1. 2.5830346E0.1. 01.338548E0.1. 01.743780E0.1. DATA 433 449 DATA (BUMONNI): 1.2.530304E0.1. 01.338548E0.1. 01.743780E0.1. DATA 433 449 471 2.7921346E0.1. 2.750306E0.1. 01.743780E0.1. DATA 433 449 471 2.7921346E0.1. 2.750306E0.1. 01.78398E0.1. 01.743780E0.1. DATA 433 459 471 4.784988E0.1. 01.78498E0.1. 01.78498E0.1. 01.74433 459 471 4.784988E0.1. 01.784988E0.1. 01.78498E0.1. 01.78498E0.1. DATA 444 459 488 488 488 488 488 488 488 488 488 48					361,368./	AE A01	344113061	- 401	3.93404	4X- 00/			6
427 442 4.0149436 00, 5,18070986 00, 5,4506232 00, 5.7102206 00/ DATA 414 429 451 9,7024026-02, 2,8543008602; 64,2844948-02, 61.468206-01, DATA 415 430 452 4.8160986-01, 2,84191846-01, 62,8798438-01, 62,8798206-01, DATA 415 431 453 -3.2221376-01, -3.0614606-01, 62,8798438-01, 62,27908E-01, DATA 415 432 454 1.8160986-01, -7.13240226-02; 3,8047/58-01, 62,27908E-01, DATA 417 433 455 1.4451855-01, 1,988282601; 2,47843808-01, 62,27908E-01, DATA 417 434 456 3,1603986-01, -7.13240226-02; 3,8047/58-03, 7.9234708-02, DATA 419 434 456 3,1603986-01, -7.2988862601; 2,4886286-01, -2.85828406-01, DATA 419 434 456 3,1603986-01, -7.2988862601; 2,4886286-01, -2.85828406-01, DATA 419 434 456 3,1603986-01, -7.2988862601; 2,4886286-01, -7.538908601, DATA 421 436 438 48702778-02, -7.280808602, -9.25221686-02, -1.5982178601, DATA 421 436 438 48702778-02, -7.280808602, -9.25221686-02, -1.5982178601, DATA 423 436 DATA (BEMONNI); -16, -7.720186077601; -3.0476918-01, -4.7892115601, DATA 423 436 DATA (BEMONNI); -16, -7.72186077601; -3.0476918-01, -4.7892115601, DATA 423 440 662 -1.08607166-01, -2.790118601, -2.40176918-01, -4.7892115601, DATA 425 441 443 1,749431601, -2.303354601, -2.717738-01, -4.7892115601, DATA 427 442 464 3,48794628-01, -3.18662776011, -3.146918601, DATA 427 442 464 3,48794628-01, -3.18662776011, -3.1492186011, DATA 427 444 466 -2.68873778-03, -7.3866346022; -1.42489886-01, -2.8779986011, DATA 428 444 466 -2.68873778-03, -7.3866346022; -1.42489886-01, -2.8779986011, DATA 428 445 467 -2.1988018-01, -2.589388601, -2.1988988601, -2.889388601, DATA 433 446 DATA (BEMONNI); -1, -2.589388601, -2.893988601, -2.893798601, DATA 433 447 471 -2.1988888801, -2.9774376601, -2.893398601, -2.893798601, DATA 433 448 DATA (BEMONNI); -1, -2.589388601, -2.8938988601, -2.89388601, DATA 433 449 471 -3.1860888601, -2.7860888601, -2.8938988601, -2.89388601, DATA 433 459 471 -3.1860888601, -2.7860886602, -2.9938988601, -2.893886601, DATA 444 459 481 -1.78608888801, -2.9774378601, -2.893888801, DATA 444 459 481 -1.7860888801, -2.787888801, -2		41 3	.8623649E	00,	4,104504	1E 00;					DATA	413	
451 9,70266028-02, 2,8543608E002, 24,8284908E02, 54,8284906E01, DATA 415 452 4,81660990E001, 2,4119184E01, 22,8799438E01, 32,8518492E01, DATA 416 453 453 -3,2281137E001, -3,0014600E001, 22,8784390E001, 22,127908E001, DATA 417 454 454 -1,478208E001, -7,1324022E022, 3,8014759E031, 75234709E02, DATA 418 453 455 1,41518856-01, 1,9088262E001, 2,88496286E01, 2,858240E01, DATA 418 454 455 2,160396E001, -3,216908E001, 2,88496286-01, 2,858240E01, DATA 419 454 455 2,7200812E001, -2,295749E001, 1,683399E011, 1,8738990E001, DATA 420 455 4,7200812E001, -2,701809F001, 1,683399E011, 1,8738990E001, DATA 421 456 458 2,7200812E001, -2,701809F001, 3,4908358E01, 3,228717E011, DATA 422 457 459 -2,20810876001, -2,701809F001, 3,407884E01, 1,8738990E001, DATA 423 458 DATA (ECHONNI), 1,8 37, 72/ 459 -2,20810876001, -2,701809F001, -2,40176518-01, -2,703119E-01, DATA 423 459 401 -3,1445918E001, -2,870118E001, -2,40176518-01, -1,7030119E-01, DATA 424 460 402 -1,0807165001, -3,1174711E002, 4,87644278-02, 1,1412201E01, DATA 425 442 404 3,147942E001, -3,11074711E002, 4,87644278-02, 1,1412201E01, DATA 427 442 404 3,147942E001, -3,18662776001, 2,0659350E-01, 2,091958E001, DATA 427 442 404 3,147942E001, 3,18662776001, 2,0659350E-01, 2,091958E001, DATA 427 443 406 -2,6887377E0-03, -7,38663010E02, DATA 429 444 406 -2,6887377E0-03, -7,38663010E02, DATA 429 445 407 -2,8878377E0-03, -7,38663010E02, DATA 429 446 408 -2,888238001, -2,8771476E001, -3,682973E001, -2,8477904E001, DATA 430 445 407 -2,8878377E0-03, -7,38663010E02, -2,8383505E001, -2,8477904E001, DATA 431 446 DATA (ECHONNI), 118 73,108/4 447 409 -0,4092138E001, -2,5839354E001, -2,839354E001, -2,8477904E001, DATA 433 448 DATA (ECHONNI), 118 73,108/4 459 471 2,982354601, -2,5839354E001, -2,839354E001, -2,8477904E001, DATA 433 459 471 2,982354601, -2,78335001, -2,7833505E001, -2,8477904E001, DATA 433 459 471 472 4,843048002, -1,100688002, -1,400898003, -1,1008880001, DATA 434 459 474 -3,100898002, -1,400898001, -1,4008980001, -2,400898001, -2,400898001, -2,400898001, -2,400898001, -2,400898001		16	.9049163E	00.	5,180795	SE 00;							
452	28		LECHOONS	1741+	31,361/	00-00	14 2014064	15-02		0.5 0.4			6
493 = 3,2281378=01, 23.0514600=01, 02.4764505=01, 02.127908E01, DATA 417 454 = 1.476208E0.01, 07.1324022E0.02, 3.8041765E0.01, 02.85702E0.01, DATA 418 433	The second secon				2.414048	45-01	-2 374054	5-04	3 16184				
454 - 1.4478298E-01, -7.132402EE001, 2.8844928E-01, 2.8382840EE01, DATA 488 433 455			.22811376	-01,					=2.12179				
433   455		-											
457 2,72008128=01, 2:7955449E=01, 1,7663399E=01, 1,55890BE=01, DATA 421 458 458 70277E=02, "2:2023388E=02, 99.2522166E=02, 5992193E=01, DATA 422 459 -2.2051067E=01, "2:701697E=01; 3,047064E=01; -3.2028428E=01/ DATA 423 458 DATA (BCMOONI), 16 37, 72 / 461 -3.1445918E=01, -2.7870118E=01, -2.4017651E=01, -4.783015E=01, DATA 424 460 462 -1.0680716E=01, -2.7870118E=01, -2.4017651E=01, -4.783015E=01, DATA 424 461 463 1,7646716E=01, -2.5003354E=01, 2.7877938E=01, 3.8096050E=01, DATA 427 462 464 3,4479462E=01, -3.1866277E=01, -3.0659350E=01, 2.8091758E=01, DATA 427 463 465 2,4251622E=01, -1.727933E=01, -1.806578E=01, -2.8477504E=01, DATA 427 464 466 -2.587377E=03, -7.8866370E=02, -0.424990E=01, -2.8477504E=01, DATA 430 465 467 -2.5878233E=01, -2.787746E=01, -3.51827281E=01, -3.1620489E=01, DATA 431 466 468 -2.4684228=01, -2.787476E=01, -3.51827281E=01, -3.1620489E=01, DATA 431 467 469 -6.4092183E=02, -1.306494E=02, N.4328973E=02, 1.5126486E=01, DATA 432 469 471 2.922348E=01, -2.787476E=01, -2.89378E=01, -3.1620489E=01, DATA 433 460 471 2.922348E=01, -3.1806494E=02, N.4328973E=02, 1.5126486E=01, DATA 433 460 472 3,1746842E=01, -3.1306494E=01, -2.9023199E=01, -3.1090478E=01, DATA 433 460 472 3,1746842E=01, -3.1306494E=01, -2.9023199E=01, -3.1090478E=01, DATA 433 460 472 3,1746842E=01, -3.1312005E=01, -2.90383654E=01, -3.892838E=01, DATA 435 473 -2.0990018E=01, -1.5414112E=01, -9.08693E=01, -2.881328E=01, DATA 435 474 -5.1828280E=02, -1.5408312E=01, -2.980898E=01, -2.881328E=01, DATA 436 455 477 -1.9484304E=02, -1.54085E=01, -2.980898E=01, -2.448132E=01, DATA 434 456 478 -2.6950170E=01, -2.803542E=01, -2.980898E=01, -2.893828E=01, DATA 444 457 -4.9548280E=01, -3.5408331E=01, -3.980898E=01, -2.79486E=01, DATA 444 458 DATA (\$000M11, 1.18191444, -2.991299E=01, -2.79486E=01, DATA 444 459 461 1.761968E=01, -2.795764E=01, -2.99589E=01, -2.79486E=01, DATA 444 459 461 1.761968E=01, -2.195898E=01, -2.995898E=01, -2.79486E=01, DATA 444 459 461 -3.3480208E=01, -2.528078E=01, -2.99688E=01, -2.99688E=01, DATA 444 459 461 -3.3480208E=0		55 1	41518855	-01,			2.484962	8-01,	2.85828	40E=01,	DATA	419	
456 458 4;2702778-02; =2:7023388602; =9:2522166-02; =1:5902195601; DaTA 422 458 DATA [BCMODN[]]; =3:772,7 459 -2:2051045601; =2:7018897501; =3:04708148-01; =3:2028428501/ DATA 423 458 DATA [BCMODN[]]; =3:7,72]/ 459 461 -3:1469185-03; =2:771118601; =2:40176518-01; =3:7931135601; DATA 424 452 -1:06807155-01; =3:51747115602; 4;87644278-02; 1:4122618501; DATA 425 441 463 1;76043168-01; 2:3003354601; 2:71771938-01; 3:0060508501; DATA 426 442 464 3:4574628-01; 2:3003354601; 2:51771938-01; 3:0060508501; DATA 426 443 465 2:4516285-01; 1:2779331601; 1:83604788-01; 6:7598108-02; DATA 429 444 466 2:4516285-01; 1:2779331601; 1:83604788-01; 6:7598108-02; DATA 429 445 466 08 02:98873778-03; 97:38663498001; 0:38527381-01; =3:1424898501; DATA 431 446 468 02:98873778-03; 97:38663498001; 0:38527381-01; =3:1424898501; DATA 431 447 469 06:4022185002; -1:3064948002; -1:42249886-01; -1:8743780801; DATA 432 448 DATA [BCMODNI]; 1: 73:108/ 449 471 2:99213468-01; -2:5603004801; 2:99231998-01; 3:10904788501; DATA 435 450 472 3:17608428-01; 3:10320058-01; 2:89399858-01; 2:8586086501; DATA 435 451 473 2:0990138-01; 1:245342801; 0:7808685801; 2:8586086501; DATA 436 452 474 45518282808-02; -1:22853428001; -2:89399858-01; 2:8586086501; DATA 436 453 475 02:985828001; 0:122853428001; 0:289399858-01; 2:8586086501; DATA 436 451 473 2:0990138-01; 1:3414122001; 0:381686598-01; 0:382997288501; DATA 436 452 474 455182808-02; -1:2855428001; 0:388645988-01; 0:382997288501; DATA 436 453 476 0:28501708-01; -2:2036120801; 0:388645988-01; 0:382997288501; DATA 436 454 476 0:28501708-01; -2:2036120801; 0:38866081; 0:382997288501; DATA 444 455 477 0:38863888002; 0:38868002; 0:388686001; 0:38972988501; DATA 444 456 0:682 0:96854988-01; 0:38868002; 0:38868601; 0:38972988501; DATA 444 457 479 3:40498001; 0:38868002; 0:388686001; 0:389729885001; DATA 444 456 0:682 0:96854988-01; 0:388686002; 0:389557385001; 0:389729885001; DATA 444 457 479 3:404988001; 0:38868002; 0:388686001; 0:389729885001; DATA 444 457 479 3:404988001; 0:38868002; 0:388686001; 0:389729885001;													
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DATA (BEMOON(1) 1 = 37, 72 / 637  461 -3,1446918E-01, -2,870118E-01, -2,40176518-01, -1.7830115E-01, DATA 425  640 -462 -1,080716E-01, -2,1074711E-02, 4,8764477E-02, 1.441261E-01, DATA 426  641 -463 1,7494316E-01, 2,3003354E-01, 2,717137E-01, 3,8094050E-01, DATA 426  641 -463 1,7494316E-01, 2,3003354E-01, 3,064933DE-01, 2,8094758E-01, DATA 428  442 -464 3,1475462E-01, 1,279933E-01, 1,836918E-01, 6,7593810E-02, DATA 429  444 -466 -2,687377E-03, -7,3866349E-02, -1,4429898E-01, -2,847794E-01, DATA 439  445 -467 -2,5476233E-01, -2,977476E-01, -2,312721E-01, -2,1622489E-01, DATA 431  446 -468 -2,884225E-01, -2,9747476E-01, -2,312721E-01, -2,1622489E-01, DATA 431  446 -468 -2,884225E-01, -2,974745E-01, -2,0333654E-01, -1,374780E-01, DATA 432  447 -67,492185E-02, 1,330434E-02, -2,452873E-02, -1,5126486E-01, DATA 433  448 -2,884225E-01, -2,983934E-01, -2,023399E-01, -1,5126486E-01, DATA 434  449 -471 -2,021348E-01, -2,5839354E-01, -2,023399E-01, -3,169478E-01, DATA 434  459 -471 -2,021348E-01, -3,16049E-01, -2,893998E-01, -2,585036E-01, DATA 435  451 -473 -2,098038E-01, -3,141112E-01, -9,0086393E-02, -2,381334E-02, DATA 435  451 -473 -2,098038E-01, -1,5414112E-01, -9,0086393E-02, -2,381334E-02, DATA 437  452 -474 -5,182820E-02, -1,2285542E-01, -4,788208E-01, -2,443182E-01, DATA 436  451 -475 -2,848382E-01, -2,128542E-01, -4,788208E-01, -2,443182E-01, DATA 437  452 -474 -5,182820E-02, -1,2285542E-01, -4,788208E-01, -2,438182E-01, DATA 438  453 -475 -2,848382E-01, -2,128542E-01, -4,788208E-01, -2,438182E-01, DATA 449  454 -476 -2,6950170E-01, -2,2036120E-01, -4,788208E-01, -2,438182E-01, DATA 449  455 -478 -2,4020538E-01, -2,12854250E-01, -4,788208E-01, -2,76328E-01, DATA 444  459 -481 -1,7813663E-01, -1,78043E-01, -4,788208E-01, -2,797765E-01, DATA 444  459 -481 -1,7813663E-01, -1,7804331E-01, -2,797765E-01, DATA 444  459 -481 -1,7813663E-01, -1,180797E-01, -4,7806412E-02, -2,399782E-01, DATA 444  459 -481 -1,7813663E-01, -2,1286793E-01, -4,7806412E-01, -2,79678E-01, DATA 445  461 -485 -3,04139E-01, -2,1286798E-01, -2,1	The same of the sa				-2.701869	PEON1.	33.047081	E-04.	63.20981				
637 461 -\$\frac{3}{1449186-01}, 2\frac{2}{174711502}, 2\frac{4}{2}\frac{4}{0176518-01}, =1.7350115601, DATA 425 640 462 -\$\frac{1}{17697156-01}, 2\frac{3}{174711502}, 4\frac{4}{1764275-02}, 1.4\frac{1}{1261601}, DATA 426 641 463 17494315001, 2\frac{1}{3}\frac{1}{303354601}, 2\frac{7}{1771936-01}, 3\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{					37. 721/	1	-0,047,046		-4.64244	40-9011			8
441 463 1,7494316E01, 2,3003354E01, 2,9177193E-01, 3,8096050E01, DATA 427 442 464 3,1475462E01, 1927933E01, 3,0659350E-01, 2,8091758E01, DATA 428 443 465 2,4251622E01, 19279733E01, 18366176E-01, 6.7599810E022, DATA 429 444 466 -2,6867377E-03, -7,3866340E02, 01,4248896E-01, 02,847904E01, DATA 430 445 467 -2,5476233E-01, -2,9471476E01, 03,1327281E-01, -3,162489E01, DATA 431 446 468 -2,948423E01, -2,5839354E01, -2,383554E-01, -1,374780E011, DATA 431 447 469 -6,4092183E-02, 1,1306494E02, N,4328973E-02, 1,5126486E01/ DATA 433 448 DATA 18CMONNI   11 73,108   / / / / / / / / / / / / / / / / / /	39 4			-01,	-2,870111	8Ec01,							
442 464 3,1475462E=01, 1,927973E=01, 3,065973D=01, 2,8091758E=01, DATA 428 443 465 2,4251622E=01, 1,927973E=01, 1,8369178E=01, 6,759810E=02, DATA 429 445 466 -2,6887377E=03, -7,3866340E=02, 014448988E=01, 02,8477904E=01, DATA 430 445 467 -2,5478233E=01, 02,9471478E=01, 03,835973E=01, 02,8477904E=01, DATA 431 446 468 -2,9684259E=01, 02,9873E=01, 02,0383654E=01, 01.8743780E=01, DATA 432 447 469 -6,4092183E=02, 1,1364948E=02, 0,4383654E=01, 01.8743780E=01, DATA 433 448 DATA (BEMODNAI) 1	The second secon				03:117471	1E-05!							
443 465 2,4251622E=01, 1,277933E=01, 1;3369178E=01, 6,7593816E=02, DATA 429 444 466 -2,6807377E=03, 97,3866340E=02; 0144249898E=01, 02,8477904E=01, DATA 430 445 467 -2,5670233E=01, 02,9771478E=01, 02,383554E=01, 03,64784E=01, DATA 431 446 468 -2,968225E=01, 02,5839354E=01, 02,383554E=01, 03,73780E=01, DATA 432 447 469 -6,4092183E=02; 1,1306494E=02, 0,4328973E=02, 1,5126486E=01, DATA 433 448 DATA (BCMODN41); 18 73,108,7 449 471 2,0921546E=01, 2,5003004E=01, 2,9023199E=01, 3,109078E=01, DATA 434 450 472 3,1760842E=01, 3,1032009E=01, 2,903899E=01, 2,5586038E=01, DATA 435 451 473 2,0998013E=01, 1,511412E=01, 9,806393E=02, 2,8381234E=01, DATA 436 452 474 -5,182220E=02, 01,2283542E=01, 01,8849063F=01, 02,8449102E=01, DATA 438 453 (75 -2,848582E=01, 03,1147760E=01, 04,8849063F=01, 03,822932E=01, DATA 439 454 476 -2,6950170E=01, 02,2036120E=01, 01,8849063F=01, 03,822932E=01, DATA 439 455 477 -1,5484304E=02, 5,7610880E=02, 12269655E=01, 08,902193E=02, DATA 440 455 478 2,402533E=01, 2,7977648E=01, 2,8945785E=01, 3,17460E=01, DATA 443 456 478 2,402533E=01, 2,7977648E=01, 2,8945785E=01, 3,17460E=01, DATA 443 458 DATA (BCMODN11); 18109; 1441, 459 481 1,7613663E=01, 3,1876031E=01, 2,8945783E=01, 2,799706E=01, DATA 443 450 482 -9,685540E=02, 01,665311E=01, 02,792706E=01, 02,799706E=01, DATA 444 450 483 -3,0742636E=01, 03,187633E=01, 03,091806E=01, 02,799706E=01, DATA 444 450 483 -3,0742636E=01, 03,187633E=01, 03,091806E=01, 02,799706E=01, DATA 444 460 483 -3,0742636E=01, 01,792802E=01, 01,79733E=01, 03,792706E=01, DATA 444 460 485 -3,0742636E=01, 01,792802E=01, 02,794706E=01, DATA 445 460 486 1,4050979E=02, 1,0056702E=01, 02,933005E=01, 02,985349E=01, DATA 445 460 486 1,4050979E=02, 7,6130777E=02, 683749E=01, 02,985349E=01, DATA 445 460 486 1,4050979E=03, 7,6130777E=02, 683749E=01, 02,985349E=01, DATA 445 460 486 1,4050979E=03, 7,6130777E=02, 683749E=01, 02,985349E=01, DATA 455 469 491 3,683997E=02, 1,0056702E=01, 02,933005E=01, 02,985349E=01, DATA 455 469 491 3,683997E=02, 1,2889985E=01, 02,933005E=01, 02,985349E=01, DATA 45			,70943158	e011	2:300335	465011	2,7177193	-01.					
446	43 4	65 2			1.027993	3Ec01.	1.834017	E-01.	6.75098	105-02.			
445 467 -2.54782338-01, -2.9471476E011, 03.1827281E-01, 03.620498E01, DATA 433 446 468 -2.96842288-01, 02.5839354E01, 02.8339578E-02, 1.8743780E01, DATA 433 447 469 -6.4092188E-02, 1.1306498E002, 0.4328578E-02, 1.5126466E01/ DATA 433 448 DATA 18CMOQN11; I	the same of the sa	AND DESCRIPTION OF THE PARTY OF			-7.386634	0E-02;	-1-424989	E-01.	62.04775	04E=01,			
446 468 -2 9484225E=01 -2:5839354E=01 -2:0383554E=01 - 61.8743780E=01 - DATA 432 449 -60 -60 -4092183E=02 -1:1306454E=02 - N.6328973E=02 -1:512666E=01 - DATA 433 449 471 2:092136E=01 -2:5603004E=01 -2:9023199E=01 -3:1090478E=01 -DATA 435 450 472 3:1760842E=01 -2:5603004E=01 -2:9023199E=01 -3:1090478E=01 -DATA 435 451 473 2:0998013E=01 -1:541412E=01 -9:09863978E=02 -2:8381234E=02 -DATA 436 451 473 2:0998013E=01 -3:14170E=01 -0:09863978E=02 -2:8381234E=02 -DATA 437 452 474 -9:1828280E=02 -9:12283542E=01 -0:18849063E=01 -0: -8:299728E=01 -DATA 438 453 -7/5 -2:8458382E=01 -9:1147760E=01 -0:19849063E=01 -0: -8:299728E=01 -DATA 438 454 476 -2:6950170E=01 -0:2036120E=01 -0:1988498E=01 -0: -8:299728E=01 -DATA 440 455 477 -0:15464304E=02 -5:7810888E=02 -1:2696565E=01 -1:866810E=01 -DATA 441 456 478 -2:4020333E=01 -2:7957648E=01 -2:696565E=01 -1:866810E=01 -DATA 443 459 461 -1:7613663E=01 -2:9844530E=01 -2:6953982E=01 -DATA 444 459 461 -1:7613663E=01 -1:539978E=01 -2:82747204E=01 -2:796786E=01 -DATA 444 469 461 -1:7613663E=01 -1:539978E=01 -2:747204E=01 -2:796786E=01 -DATA 444 460 462 -0:665540E=02 -1:6605311E=01 -0:2747731E=01 -2:796786E=01 -DATA 444 463 -3:30742836E=01 -3:1876331E=01 -0:001886E=01 -2:796786E=01 -DATA 444 463 -3:30742836E=01 -3:1876331E=01 -0:001886E=01 -2:796785E=01 -DATA 444 463 -3:30742836E=01 -3:1876331E=01 -0:001886E=01 -2:796785E=01 -DATA 444 463 -3:30742836E=01 -3:1876331E=01 -0:001886E=01 -2:796785E=01 -DATA 444 464 -2:340419E=01 -1:528028E=01 -1:001886E=01 -2:796785E=01 -DATA 448 465 -3:69849E=01 -3:1876331E=01 -0:001886E=01 -2:796785E=01 -DATA 449 465 -3:69849E=01 -3:18767831E=01 -2:001886E=01 -2:796785E=01 -DATA 449 465 -3:69849E=01 -3:18767851E=01 -2:001886E=01 -2:796785E=01 -DATA 449 465 -3:69849E=01 -3:1876785E=01 -2:001886E=01 -2:001886E=01 -2:001886E=01 -DATA 449 465 -3:69849E=01 -3:1876785E=01 -2:001886E=01 -2:001886E=01 -DATA 449 465 -3:69849E=01 -3:1876785E=01 -2:001886E=01 -2:001886E=01 -2:001886E=01 -DATA 449 466 -3:4888888888888888888888888888888888888	45 4	67 -2	56782336	-01,	-2.947147	6Ecoli	08.152728	E=01.	=8.16204	89E901,			
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471 2.0921946%001, 2.5603004E01; 2.9023199E-01, 3.1090478E001, DATA 435 450 472 3.1760442E-01; 3.1032005E001, 2.939993E-01; 2.558038E01; DATA 435 451 473 2.0998013E-01; 1.5414112E-01; 2.9086393E-02; 2.8381234E002, DATA 435 452 474 -5.1828280E-02; -1.2283542E-01; -1.8849063E-01; -2.4449182E001; DATA 438 453 /75 -2.8458382E-01; -3.1147760E-01; -3.149849063E-01; -2.4449182E001; DATA 439 454 476 -2.6950170E-01; -2.2036120E-01; -0.19882828E-01; -2.8259228E-01; DATA 440 455 477 -1.5484304E-02; -3.7610888E-02; 1.2696555E-01; -3.8269228E-01; DATA 441 455 477 -1.5484304E-01; 2.7957648E-01; -3.9545783E-01; -3.1719860E-01; DATA 442 457 479 3.1471938E-01; 2.7957648E-01; -3.6915992E-01; 2.2794286E-01; DATA 443 459 481 1.7613663E-01; -3.9844530E-01; -2.6915992E-01; 2.2794286E-01; DATA 444 459 481 1.7613663E-01; -3.1876331E-01; -3.9945783E-01; -2.796706E-01; DATA 444 460 482 -9.6455400E-02; -1.6605311E-01; -2.9918868E-01; -2.7997065E-01; DATA 446 461 483 -3.0742836E-01; -3.1876331E-01; -3.9918868E-01; -2.7997065E-01; DATA 446 463 485 3.6737205E-02; -1.6605311E-01; -2.9918868E-01; -2.7997065E-01; DATA 447 464 -2.340419F-01; -1.7528028E-01; -3.1938023E-01; -3.5920438E-02; DATA 448 465 486 -3.30742836E-01; -3.1876331E-01; -3.9918868E-01; -3.7920438E-02; DATA 448 467 488 -3.797295E-02; -1.6605912E-01; -3.9918868E-01; -3.9920438E-02; DATA 448 468 486 2.6908949E-01; -2.8247991E-01; -3.1938023E-01; -3.5920438E-02; DATA 448 469 41.45097979E-02; -7.6130797E-02; -7.9781868E-01; -3.5920438E-02; DATA 448 467 489 -1.3488206E-01; -3.1876331E-01; -2.933808E-01; -3.5918791E-01; DATA 459 468 DATA (3509049E-01; -2.9286793E-01; -2.9330005E-01; -2.906849E-02; DATA 459 469 471 -3.180708E-01; -2.9286793E-01; -2.9330005E-01; -2.906849E-01; DATA 459 460 493 -3.93382001; -3.18578201; -3.935332E-01; -3.99372E-01; DATA 459 460 494 -3.34882001; -3.186988601; -3.186988601; -3.18788601; -3.97888601; -3.97888601; -3.97888601; -3.97888601; -3.97888601; -3.97888601; -3.97888601; -3.97888601; -3.97888601; -3.97888601; -3.97888601; -3.97888601; -3.97888601; -3	Principal designation of the control				1:130045	456051	4. 4258213		1.51206	000001/	DATA	433	
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473	Company of the Compan												
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476 -2,6950170%-01, -2,2036120%-01, -1,98828288-01, -6,9092195E-02, DATA 440 455 477 -1,5484304%-02, 5,7810888E-02, 1,2696565E-01, 1,4866810%-01, DATA 441 456 478 2,4020533E-01, 2,7957648E-01, 3,40545783%-01, 3,171960E-01, DATA 442 457 479 3,1471913%-01, 2,9844530E-01, 2,6915992%-01, 2,2704186E-01/DATA 443 458 DATA (\$\frac{1}{2}\text{MODNITITED (1)} \text{11} \text{11} \text{11} \text{11} \text{11} \text{11} \text{11} \text{11} \text{12} \text{11} \text{12} \text{11} \text{11} \text{11} \text{11} \text{11} \text{11} \text{12} \text{11} \text{12} \text{11} \text{11} \text{11} \text{11} \text{11} \text{11} \text{11} \text{11} \text{12} \text{12} \text{11} \tex	Company of the Control of the Contro		,1828280	-05	-1:228354	2E-01.	01,884906		-R.4491	8250011	DATA		
477 01,5484304502, 5,7810888502, 102696565501, 1.8866310501, DATA 441 456 478 2,40205335001, 2,79576485001, 3,0545783501, 3,1718660501, DATA 442 457 479 3,14719135001, 2,98445305001, 2,6915992501, 2,2794865501/ DATA 443 458 DATA 185M00N41; 181091144; DATA 444 459 481 1,76136635001, 1,15399735001, 4,78064125002, 02,39978255002, DATA 445 460 482 09,64554005002, 01,66053115001, 02,7472045001, 02,74632465001, DATA 446 461 483 03,0742636501, 03,18763315001, 03,0918866501, 02,7997065501, DATA 447 462 484 02,34041595001, 01,7528028501, 01,0787331501, 02,7997065501, DATA 448 463 485 3,67372055002, 1,06567025001, 1,8036823501, 2,2532320501, DATA 449 464 486 2,6008949501, 2,9991259501, 3,1671761501, 3,1913751501, DATA 449 465 486 1,46509795002, 2,9991259501, 3,1671761501, 3,1913751501, DATA 450 467 489 01,3488206501, 02,9991259501, 02,4538368501, 1,9781704501, DATA 451 468 1,46509795002, 7,61307975022, 6,9176308503, 06,5639475002, DATA 452 467 489 01,3488206501, 02,086793501, 02,9330005501, 02,9863149501/ DATA 452 469 491 03,1887006501, 03,16955876501, 02,9330005501, 02,50765215001, DATA 455 469 491 03,1887006501, 03,1695876501, 02,9330005501, 02,50765215001, DATA 455 470 492 01,93722335001, 01,26996325001, 02,93300055001, 2,50765215001, DATA 455 471 493 8,84359715002, 1,53733975001, 2,11072715001, 2,50765215001, DATA 457													
478													
### ### ### ### ### ### ### ### ### ##	56 4	78 2									DATA	442	
DATA (#SMODN(1):181091144)/  481 1:76136638m01: 1:1539973Em01: 4.7806412Em02: m2.3997825Em02: DATA 444  482 m9.6655400Em02: m1.6605311Em01: m2.27472045m01: m2.7603246Em01: DATA 446  661 483 m3.0742636Em01: m3.1876331Em01: m3.0918866Em01: m2.7997065Em01: DATA 447  662 484 m2.3404159Em01: m1.7528028Em01: m1.0787331Em01: m3.5920438Em02: DATA 448  463 485 3.67372058m02: 1.0656702Em01: 1.87036823Em01: 2.2532320Em01: DATA 449  664 486 2.6008949Em01: 2.9991259Em01: 3x1671761Em01: 3.1913751Em01: DATA 450  665 488 1.4050979Em03: 7.6130797Em02: 6x5176308Em03: m6.5639447Em02: DATA 451  666 488 1.4050979Em03: 7.6130797Em02: 6x5176308Em03: m6.5639447Em02: DATA 452  667 489 m1.3488206Em01: m2.8286793Em01: m2.9863149Em01: DATA 453  669 491 m3.1887006Em01: m3.1695587Em01: m2.9330005Em01: m2.9863149Em01: DATA 455  670 492 m1.9372233Em01: m1.2699632Em01: m3.91377Em01: 2.5076521Em01: DATA 456  671 493 8.8435971Em02: 1.5373397Em01: m3.91377Em01: 2.5815867Em01: DATA 456  672 473 8.8435971Em02: 1.5373397Em01: m3.91377Em01: 2.5815867Em01: DATA 457	57 4	79 3	.14719135	001,	2.984453	0E001.					DATA	443	
460 482 -9,6655400E-02; -1.6605311E-01; -0.2747204E-01; -0.7553246E-01; DATA 446 461 483 -3.0742636E-01; -3.1876331E-01; -0.0918866E-01; -0.7997065E-01; DATA 447 462 484 -2.3404159E-01; -1.7528028E-01; -1.0787331E-01; -3.5920438E-02; DATA 448 463 485 3.6737205E-02; 1.0656702E-01; 1.3036823E-01; 2.2532320E-01; DATA 449 464 486 2.6808949E-01; 2.9991259E-01; 3.1671761E-01; 3.1913751E-01; DATA 450 487 3.0745576E-01; 2.9247591E-01; 2.4536368E-01; 1.9751704E-01; DATA 451 468 488 1.4050979E-02; 7.6130797E-02; 6.5176308E-03; -6.5639447E-02; DATA 452 467 489 -1.3488204E-01; -2.0286793E-01; -2.7852312E-01; -2.7863149E-01; DATA 453 468 DATA 18CMODNII; 1.1845180; DATA 455 469 491 -3.1887004E-01; -3.1695587E-01; -2.7330005E-01; -2.5076521E-01; DATA 455 470 492 -1.9372233E-01; -1.2699632E-01; -5.73149327E-02; 1.7810609E-02; DATA 456 471 493 0.8435971E-02; 1.5373397E-01; 2.1107271E-01; 2.5815867E-01; DATA 457	58	DATA	LECHOONS	17:10	10911441/						DATA	111	6
661 483 <3.07426368=01; -3.1876331Ec01; -63.0918866E=01; -62.7997065Ec01; DATA 447 662 484 -2.3404159E=01; -1.7525028E=01; -1.0787331E=01; -3.5920438E=02; DATA 448 663 485 3.67372056=02; 1.0656702Ec01; 1.3036823E=01; 2.2532320Ec01; DATA 449 664 486 2.6908949E=01; 2.9991259Ec01; 3.1671761E=01; 3.1913751Ec01; DATA 450 655 467 3.0745576Ec01; 2.8247591Ec01; 2.4536368E=01; 1.9751704Ec01; DATA 451 666 488 1.4050979E=08; 7.6130797Ec02; 6.5176308E=03; -6.5639447Ec02; DATA 452 667 489 -1.368206E=01; -2.8286793Ec01; -62.9852312E=01; -62.9863849Ec01; DATA 453 668 DATA 18CMODNII; 11445180; DATA 453 669 491 -3.1887006Ec01; -3.1695587Ec01; -62.9330005E=01; -2.5076521Ec01; DATA 455 670 492 -1.9372233E=01; -1.2699632Ec01; -65.3149327E=02; 1.7810609Ec02; DATA 456 671 493 6.8435971E=02; 1.5373397Ec01; -2.1107271E=01; 2.5813867Ec01; DATA 456			. 79130938	m01,	1,173997	4E001	4, F60641	E-018	22.39075				
484 =2.3404159E=01; =1.7528028E=01; =1.0787331E=01; =3.5920438E=02; DATA 448 463 485 3.67372058=02; 1.0656702E=01; 1.5036823E=01; 2.2532320E=01; DATA 449 464 486 2.6908949E=01; 2.9991259E=01; 3.1671761E=01; 3.1913751E=01; DATA 450 487 3.0745576E=01; 2.9247591E=01; 2.4534368E=01; 1.9751704E=01; DATA 451 488 1.4050979E=02; 7.6130797E=02; 6.5176308E=03; e6.5639447E=02; DATA 452 467 489 =1.368206E=01; =2.0286793E=01; e2.5852312E=01; e2.9863149E=01; DATA 453 468 DATA 18CMODNII; 1:1445180; DATA 453 469 491 =3.1887006E=01; =3.1695587E=01; e2.9330005E=01; e2.5076521E=01; DATA 455 470 492 =1.9372233E=01; =1.2699632E=01; e5.5149327E=02; 1.7810609E=02; DATA 456 471 493 0.8435971E=02; 1.5373397E=01; 2.1107271E=01; 2.5815867E=01; DATA 457	61	3 e3	.07426366	-01	-3.187633	16601.	03-091886	E-01.	92.79970				
463 485 3.67372058=02, 1.0656702E001, 1.8036825E=01, 2.2532320E001, DATA 449  664 486 2.6008949E=01, 2.9991259E=01, 3.1671761E=01, 3.1913751E001, DATA 450  655 487 3.0745576E=01, 2.8247591E=01, 2.4536368E=01, 1.9751704E=01, DATA 451  666 488 1.4050979E=02, 7.6130797E=02, 6.5176308E=03, 06.5639447E=02, DATA 452  667 489 =1.368206E=01, =2.0286793E=01, 02.786312E=01, 02.7863149E=01/ DATA 453  668 DATA 18CMODN11, 1:1445180,/  669 491 =3.1887006E=01, =3.1695587E=01, 02.9330005E=01, 02.5076521E=01, DATA 455  670 492 =1.9372233E=01, =1.2699632E=01, 05.5149327E=02, 1.7810609E=02, DATA 456  471 493 0.8435971E=02, 1.5373397E=01, 2.1107271E=01, 2.5813867E=01, DATA 457													
486 2.6008949E=01; 2.9991259E=01; 3.1671761E=01; 3.1913751E=01; DATA 450 487 3.0745576E=01; 2.8247591E=01; 2.4536368E=01; 1.9751704E=01; DATA 451 666 488 1.4050979E=02; 7.6130797E=02; 6.5176308E=03; e6.5639447E=02; DATA 452 667 489 =1.3686206E=01; =2.0286793E=01; e2.5852312E=01; e2.986349E=01/ DATA 453 668 DATA 18CMODNII; 1:1445180;/ 669 491 =3.1887006E=01; =3.1695587E=01; e2.9330005E=01; e2.5076521E=01; DATA 455 670 492 =1.9372233E=01; =1.2699632E=01; e5.5149327E=02; 1.781069E=02; DATA 456 671 493 0.8435971E=02; 1.5373397E=01; 2.1107271E=01; 2.5813867E=01; DATA 457	163 4	85 3	.67372058	-05'			1.103682	SE-01,	2.25323				
466 488 1,4050979E=02, 7,6130797E=02, 6+\$176308E=03, 06.\$639447E902, DATA 452 467 489 =1.3686206E=01, =2.0286793E=01, 02.9853312E=01, 02.986349E=01/DATA 453 468 DATA (BCMODNII), I = 145 f 180 / DATA 454 469 491 =3.1887006E=01, =3.1695587E=01, 02.9330005E=01, 02.5076521E=01, DATA 455 470 492 =1.9372233E=01, =1.2699632E=01, 05.9349327E=02, 1.781069E=02, DATA 456 471 493 0.8435971E=02, 1.5373397E=01, 2.1107271E=01, 2.5815867E=01, DATA 457			60089498	m01.	2.999125	9E=01.	34167176	LE-01,	3.19137	515001.	DATA	450	
467 489 -1.3686206E-01, -2.0286793E-01, cg.9852312E-01, cg.9863449E-01/ DATA 453 468 DATA (BCMODNII), I = 145 f 180 / DATA 454 469 491 -3.1887006E-01, -3.1695587E-01, cg.9330005E-01, c2.5076521E-01, DATA 455 470 492 -1.9372233E-01, -1.2699632E-01, c5.9149327E-02, 1.781069E-02, DATA 456 471 493 0.8435971E-02, 1.5373397E-01, 2.1107271E-01, 2.5813867E-01, DATA 457					2: 824759	150011	2-453636						
DATA (8CMOON(1), 1+149180)/  007													
669 491 =3.18870066=01, =3.16955876=01, c2.9330005E=01, c2.5076521E=01, DATA 455 470 492 =1.9372233E=01, =1.2699632E=01, c5.5149327E=02, 1.7810609E=02, DATA 456 471 493 0.8435971E=02, 1.5373397E=01, 2.1107271E=01, 2.5815867E=01, DATA 457					145/180./	4-5011	- 61503537	VII	-E	-yu1/			6
470 492 -1.93722338-011.2699632E-015.5149327E-02. 1.7810609E-02. DATA 456 471 493 8.84359718-02. 1.5373397E-01. 2.11072718-01. 2.5815867E-01. DATA 457						76601.	è2.933000!	5E-01.	-2.50765	215-01.			9
471 493 8,84359718=02, 1,5373397EG01, 2,11072716=01, 2,5815867EG01, DATA 457	170 4	92 -1	.93722338	-011	-1,269963	2E-01.	-5.514932	F-02,	1.73106	6950024	DATA	456	
ATT AVE Y DIRUGENANT, I LIEUTAREARE Y DIAMERELAL I LIEUTAREARE A. R. V MA		93 8	.84359715	=02.	1,537339	75-01.	2.110727	16-01.	2.58156	6764011	DATA		
472 494 2,93099545-01, 3,1452340E-01, 3,21698405-01, 3,1459093F-01, DATA 458	72 4	y	,93099546	e01,	3.145234	05001,	3-216984	8-014	3.14590	93#=01,	DATA	458	

```
495
473
                                           2.98820466-01.
                                                                                2.6052708Ec01.
                                                                                                                    2,1619656E-01, 1.6251325E-01, DATA 459
                                                                              3.4494885E002; 08.5609255E-02; 01.8626072E001; 02.3434347E001; 02.8231703E001; 03.1273803E001;
                             496
474
                                                                                                                                                                                              DATA 460
475
                             497
                                                                                                                                                                                               DATA 461
                                        -3,21594744-01, -7,91040078-01,
-1,51799298-01, -7,91040078-01,
TA (BCMOON4[) | 10181 | 216) /
1,38806308-01, 1,95669258-01,
-1,48868-01, 3,21069798-01,
                                                                             -3.0729960EG01.
                                         -3.21594768-01.
                                                                                                                    GR. $1315728-01, 62.47693155-011
 476
                                                                                                                                                                                               DATA 452
                                                                              -7,9109685E002; -4,44607798-03,
 677
                             499
                                                                                                                                                            6.02437725-02/
                                                                                                                                                                                              DATA 463
 478
                                                                                                                                                                                               DATA
                                                                                                                                                                                                          464
                                                                                                                                                                                                                         6
                             501
502
                                                                                                                      2.45699286-01.
                                                                                                                                                            2.8412068E001.
3.8179754E001,
                                                                                                                                                                                                          465
                                                                                                                      3,18376256-01,
 480
                                                                                                                                                                                               DATA
                                                                                                                                                                                                          466
                                                                             2.31178925c01;
e1.1011114Ec02;
                                                                                                                      1.80303888-01,
481
                             503
                                                                                                                                                            1.2157571Fa01,
                                                                                                                                                                                               DATA
                                                                                                                                                                                                          467
                             504
                                              70645228-02,
                                                                                                                    08.01747125-02.
                                                                                                                                                         -1.4751543E-011
 482
                                                                                                                                                                                               DATA
                                                                              -2.6189837E-01.
 483
                             505
                                                                                                                    -2.9997320E-01,
                                                                                                                                                         98.1917407Fe01.
                                                                                                                                                                                               DATA 469
                                         -3.1428681E-01, -2.9057715E-01;
-1.09959896-01, -3.3509700E-02;
 684
                             506
                                                                                                                    -2.4430596E-01,
                                                                                                                                                         01.4219191F001,
                                                                                                                                                                                               DATA 470
                                                                                                                      4482325325-02.
                             507
                                                                                                                                                           1.13348956-01,
3.0183634E-01,
 485
                                                                                                                                                                                               DATA 471
                                                                                2,3049314Ec01.
                                                                                                                      2.72581126-01,
 486
                             508
                                           1.76845638-01.
                                                                                                                                                                                               DATA
                                    DATA (BCMOON!] 1 10217,252,/
2,42993528-01, 1,94787408-01,
                             509
487
                                                                                                                      J.06466978-01.
                                                                                                                                                                                              DATA
                                                                                                                                                            2.8076260E=01/
 488
                                                                                                                                                                                               DATA 474
                                                                                                                                                                                                                         6
 489
                                                                                                                      1,38095576-01,
                                                                                                                                                            7.5099055Ea02,
                                                                                                                                                                                               DATA 475
                                             ,1530959E-03, 06.0180007E-02, 4373649E-01, 02.0587120E-01,
                             512
513
 490
491
                                                                                                                   91+2711545E-01, 91.8949563E-01, 98.1165400E-01, 93.1822778E-01,
                                                                                                                                                                                               DATA 476
                                                                                                                                                                                               DATA 477
                             514
515
 692
                                         -3.0304265E-01, -2.6663647E-014
                                                                                                                    -2.11944275-01, -1.4374670F-01:
                                                                                                                                                                                               DATA
                                              78426418-02.
                                                                                                                                                            1.5322783E-01.
 493
                                                                                1.00708068502;
                                                                                                                      8.50594546-02,
                                                                                                                                                                                              DATA
                                                                                                                                                                                                          479
                                                                                                                      2,92160976-01.
 694
                             516
                                                                                2.5845602Ec014
                                                                                                                                                            3.52029265=01:
                                                                                                                                                                                               DATA
                                                                                                                                                                                                          480
 495
                             517
                                                                                                                      2.87670996-01.
                                                                                                                                                            2.534675960011
                                                                                3:094267069014
                                                                                                                                                                                               DATA
                                                                                                                                                                                                        481
                                                                                                                   7-1992377E-02, 2.5523633E-02,
-1.7426396E-01, -2.3019461E-01/
                                                                              1:5369207E001,
-1:1069387E-01,
 496
                                                                                                                                                           2.552363350021
                                                                                                                                                                                               DATA
 497
                                         -4.3026286E-02,
                                                                                                                                                                                                          483
                                    DATA (BCMOON61), 1 = 233, 288)/
-2,74912916-01, -3,0484520E-01;
 498
                                                                                                                                                                                               DATA
                                                                                                                                                                                                          484
                                                                                                                   -3-1693827E-01, -3.8921073E-01,
                                                                             2:3403232E-01;
5:8313240E-02;
2:0112754E-01;
                             522
                                                                                                                   -1,7317330E-01, -1.9105566E-01,
 900
                                         -2.8131327E-01,
                                        -2,3808904E-02,
2,4187671E-01,
                                                                                                                     1.25651176-01.
3.06158716-01.
2.64741786-01.
                             523
 901
                                                                                                                                                           1.8943475E-01:
                                                                                                                                                                                               DATA 487
 902
                             524
                                                                                                                                                            3.1662439E-01,
                                                                                                                                                                                              DATA 488
                             525
 903
                                              1272791E=01,
                                                                                2.9510636E001
                                                                                                                                                            2.2290694E=01:
                                                                                                                                                                                              DATA 489
                                                                             1.1131959Ec01,
e1.5873598Ec01;
                                                                                                                   4-56064975-02,
-2,1785629E-01,
                             526
527
                                         1.71150638-01,
-9.26590085-02,
904
                                                                                                                                                        -2.3305644E-02,
                                                                                                                                                                                                          491
                                        -2.9993153E-01,
-2.5051833E-01,
                                                                                                                   -3,13394298-01, 02.9101966Ea01, 01,27379768-01, 05.4089065Ea02/
 $06
$07
                             528
                                                                             03.1627884 E01.
01.946864 E001.
                                                                                                                                                                                               DATA
                             529
                                                                                                                                                                                              DATA
                                                                                                                                                                                                        493
                                    DATA (BCMOON(1),1+289,324)/
2,3483267E-02, 9,7739230E-02,
 508
509
                                                                                                                                                                                              DATA
                                                                                                                                                                                                          494
                                                                                                                     1,6553165E-01,
3,1594581E-01,
2,3973983E-01,
                                                                                                                                                           2.2339293E-01,
                                              .6871232E-01.
                                                                                2,9981608E=01;
2,7782194E=01;
                             532
                                                                                                                                                           3.1714354Ee011
 $10
                                                                                                                                                                                              DATA
911
912
913
                             533
                                              .0407270E-01,
                                                                                                                                                            1.9133827E=01.
                                                                                                                                                                                                          497
                                                                                                                   2+04409038=03:

-2+4418644E=01:

-3+0026076E=01:

-7+5644602E=02:

2+049882E=01:
                             534
                                           1,3427949E-01,
                                                                                7.0441874EG02,
                                                                                                                                                         =6.8208682Fe02#
                                                                             -2.0044620Ec01,
-3.1822827Ec01,
-1.4728946Ec01,
1.4313460Ec01,
3.1417789Ec01,
                             535
                                         -1.3701063E-01,
                                                                                                                                                         -2.9391113E-01,
                                                                                                                                                                                              DATA 499
                                        -3,15997866-01,
-2,1135818E-01,
7,3547381E-02,
2,9195773E-01,
                                                                                                                                                        2.6363681E201,
2.6496305E201,
2.5496305E201,
3.1323697E201/
                             536
                                                                                                                                                                                              DATA 500
                             537
                                                                                                                                                                                              DATA 501
                             538
                                                                                                                                                                                              DATA 502
                             539
                                                                                                                      3-2114543E-01,
                                                                                                                                                                                              DATA
                                                                                                                                                                                                          503
                                    DATA (BCHOON(1):1:325,360)/
2.91492426-01, 2.5737093E-01,
 918
                                         7,74840678-02, 3,1366293E-02,
-1,7443552E-01, -2,3380964E-01,
-3,2220864E-01, -3,4089116B-01,
-1,648277E-01, -9,3963879E-02,
-1,2355897E-01, -9,3963879E-01,
-3,0961112E-01, -3,2218648E-01,
-2,7289519E-01, -3,3369481E-03,
-4,10CMC0N(1),14341
                             541
 119
                                                                                                                      2,1253329E-01,
                                                                                                                                                           1.5871084E-01.
                                                                                                                                                                                               DATA 505
                                                                                                                                                        -1.0777423E-01:
-3.1180177E-01:
-2.2930936E-01:
5.3046796E-02:
                             542
                                                                                                                    -3.8028877E-02.
 920
                                                                                                                                                                                              DATA 506
                                                                                                                   2.8114913E-01.

02.8188879E-01.

02.1322523E-02.

2.4066379E-01.
                             343
 921
                                                                                                                                                                                              DATA 507
                             544
 922
                                                                                                                                                                                              DATA
                                                                                                                                                                                                         508
                             545
  23
                                                                                                                                                                                                          509
                                             .0961112E=01: 3:2218648E=01: 2:406637PE=01: 2:8210714E=01: 0.9961112E=01: 3:2218648E=01: 3:1969826E=01: 3:8282657E=01: 7289519E=01: 2:3162983E=01: 1:8093217E=01: 1:2273656E=01: 8976965E=02: 08:3369481E=03: 07:6952303E=02: 01:4414669E=01: 05:0593E=01: 02:5982629E=01: 02:9932990E=01: 03:2037714E=01: 04:59593E=01: 02:5982629E=01: 02:9932990E=01: 03:2037714E=01: 04:59593E=01: 02:5982629E=01: 02:5982
 924
                             546
                                                                                                                                                                                                          510
 925
926
                             347
                                                                                                                                                                                               DATA 511
                             548
                                                                                                                                                                                              DATA 512
 327
                                                                                                                                                                                              DATA 513
 928
929
                             951
                                        -3.19637378-01, 02.9623164EG01, C2.5228047E-01, 01.9211900EG01/
TA (RMOON (1), I = 1, 36)/
6.18080648 01, 6.1101402E 01, 6.0296631E 01, 5.9423984E 01, 5.6827535E 01, 9.7675222E 01, 5.8934244E 01, 5.4382106E 01, 5.6084142E 01, 5.608237E 01, 5.6384968E 01, 5.6964789E 01,
                             552
 $30
                                                                                                                                                                                              DATA
 931
932
                                                                                                                                                                                              DATA 516
                             561
562
963
                                                                                                                                                           5.94239848 01.
                                                                                                                                                                                              DATA 517
                                                                                                                                                           5.4382106E 01,
5.6964789E 01,
 $33
                                                                                                                                                                                              DATA
 934
                                                                                                                                                                                              DATA
                                                                                                                     5.9697461E
5.2913439E
6.3615273E
6.2416922E
6.201674E
 935
936
937
938
939
                                                                                5.8702874E 01.
6.2319873E 01.
6.3667728E 01.
6.2830192E 01.
                                                                                                                                                            6.8674790E
                                                                                                                                                                                              DATA
                                                                                                                                               01.
                                                                                                                                                                                     011
                                                                                                                                                                                                         320
                             565
                                             .1564023E 01.
                                                                                                                                                            6.8332761E
                                                                                                                                               01:
                                                                                                                                                                                     011
                                                                                                                                                                                              DATA 521
                                                                                                                                                           6.1944465E
5.9530783E
                                                                   01.
                             566
                                                                                                                                               01:
                                                                                                                                                                                     011
                                                                                                                                                                                              DATA
                                                                                                                                                                                                        522
                             567
                                              31769746
                                                                                                                                               014
                                                                                                                                                                                              DATA 523
                                                                                                                                                                                     014
                                              1416084E 01.
8842214E 01.
                                                                                 6.0833715E 014
                                                                                                                                               014
                                                                                                                                                                                              DATA 524
                                                                                                                                                                                    011
                             569
                                                                                  : $169846E 01.
                                                                                                                      5.7560039E 01.
                                                                                                                                                            5.2067985E
 540
                                                                                                                                                                                    01/
                                                                                                                                                                                              DATA 525
941
942
943
                                                CAMOON (1).18
                                                                                                                                                                                              DATA
                                                                                                                                                                                                         526
                                             .67503434 01.
.78553305 01.
.13906274 01.
.34720016 01.
                                                                                                                                                           5.7220797E 01: DATA 527
6.8503983E 01: DATA 528
6.3229471E 01: DATA 529
6.3123424E 01: DATA 529
                             571
572
                                                                                5.6655295E
5.8661828E
                                                                                                                     5.9570153E 012
5.9570153E 012
6.2790967E 012
6.5397241E 012
                                                                                                          014
                                                                                                          014
                             573
574
 944
945
                                                                                 6,2168383E
                                                                                                         014
                                                                                6.3522323E 01,
```

47	575 576	6:27337276		6.22632238	01.	6,1745316	01.	3.1208399E				
348	577	6,0673705E				5.9658475		5.9188281E				
		3,87477628		5.8344873E	014	5,79949258	911	5.2721531E		DATA	The state of the	
149	578	5.75547146	01.	5.7526134E	074	5,76622148		5.7976830		DATA	534	
30	579	5.84637155		5,91043008	01.	3,9349605	01,	6.06479105	01/	PATA	935	
51	DA	I MOOMES AT	1111	73.108,/						DATA	536	
51 52	581	5.1429894E	08,	6.2141914E	01,	6,2728194E	01,	6.8147331E	01.	DATA	537	
53	582	6.33726838		6.3393625E	01.	6.32155388		6.2858711			538	
154	583	6,2356227E	08.	6.1750830E	014	6-10908165					-	_
55	584							6.04251496		DATA	-	
		5.91982978	01,	5.9245629E	01.	548790307E	01,	5.8442486E			540	
56	585	5,82010798	01.	5.8057681E	01.	5+8001381E	01.	5.80244275		DATA	541.	
557	586	5,61232285		5.8300885E	01.	5×8564150	01.	5.89178205	01:	DATA	542	
58	587	5,93689646	01.	5.9904619E	014	6-05075446	01,	6.1146942E		DATA	543	
999	588	6.1782610E		6.2368864E	01.	6 2859316E		6.32116885		DATA	544	
60	589	6.33920415		6.3378171E	01,	6-31620388	91,	6.2751194E			_	
IA4		TA SEMOON S		00.444.7	4+1	AAAAAA	4.1	A. 6. 577.4-	41,			
62	591	6 2160180E	. / 4			4 64 159446	04	E 40. 700AF		DAYA	546	6
			01,	6,1454635E	01;	6,0639244E	01,	5.9843220E	0.00		547	
63	592	5.9070027E		5,8398987E	014	5.7877869E	91,	5.7536746E		DATA	548	
164	593	5.73849236	01,	5,7411933E	016	5,75923715	01,	5.2893024E	01.	DATA	549	
165	594	5.8280165E	08.	5.8723121E	01;	5492070895	01.	5.9713111E		DATA	550	
66	595	6.0235767E		6.0769596E	01.	6-13073208	01.	6.1836834E	011	-	551	
67	596	6.23395586	01.	6.2790454E				6.8415034E				
68	597				014	6,31596118	01.		011		552	
		6,35261855	01,	6.3467767E	01.	6.82233588	010	6.2788610E	910		553	
69	598	6,21738135	01.	6:1405581E	014	6.05272648	01.	5.9597486E		DATA	554	
70	599	5.84862768	01,	5.7848423E	01:	5472142926	01.	5.67794478	01/	DATA	555	
771	DA	TA (EMOON S	lola1	35,180./	W 7-	-				DATA		6
172	601	5,68956208	01,	5,6665945E	01:	5.4766171E	01,	5.2458472E	014		557	
73	602	5.40664176	01.	5.8755023E	01.	5,9468433E	01,	6.0169165	01,		558	
174	603	6,08319648	01,									
			04	4:1442056E	01.	6419918908	01.	6.24778536	011		559	
75	604	6,28942136	01,	0 . 3532385E	01.	6-3489453E	01.	6.36407335	01:	_	560	
76	605	6.36705956	010	6.3559880E	01.	6. \$2920835	01.	6.2856993E	01:	DATA	561	
77	606	6,22543812	01.	6.1497335E	010	6-0614893E	01.	5.9653365E			562	
78	607	5.84754926	01,	5.7756553E	01.	5.69768538	01.	5.6410805E			563	
79	608	5.611439BE	01,	5,6114511E	01,	5.8403792E	01.	5.6943111E	01,		564	
80	609	5.7670615E	71.	5.8514040E	01,	5x9402487E	01.				) TO 77 (2.5)	
181				3103140408	0.1.5	3414054016	A T 1	6.9275026E	01/		565	
	414	TA LAMOON 6					11				566	ð
82	611	6,10853126		6:1802574E	01.	6,24099528	01.	6.2901355E	014	DATA	507	
163	612	6,3277668E		6,3542910E	01.	6,37008345	01.	6.4752559E	01.	DATA	568	
84	613	6,36955028		6.3523553E	014	6.8228419E	01.	6.2802143E	01:		569	
85	614	6.22405825		6.1547287E	01.	6.0737263E	01,	5.9840132E	014		570	
86	615	5.8901946E	01.	5.7984584E	011	9.71616838	01,	5.45109205	014		571	
87	616	5.6100358E	01,	5.5979477E		5,01647608						
88					010		01.	5.46375725	01.		572	
	617	5.73475958	01,	5.6223120E	014	5. P184025E	014	6.0153581	01.		573	
189	618	6.10667915		6,18748156	01,	6.25460215	01.	6.3064604E	01.		576	
90	619	6.34277898	011	6.3642307E	01.	6,3720388	011	6.36770845	01/		575	
91	DA	TA CRHOON &	110145	1712521/							576	6
192	621	6.3525226E	01,	6,3275335E	01,	6,29336438	01.	6.25026058	01,		577	-
193	622	6.19826536			01.	6.05863192		5.9930655E		DATA		
194	623	5,9134757E	01.	5.83390935		5.73975078		5.6973199E		DATA		
		5 4800000	04	8.4705000		8 47077078	01.					
95	624	5.6530865E	011	5.6325985E	01.	5.0393203E		5.6737967E		DATA		
96	625	5.7333796E	411	5.81266128	071	5,9044352		6.0008552		DAYA		
197	626	6,0944765E	01,	6,17900408	01.	6,2497180E	01.	6.4039211			295	
98	627	6,3393739E	01,	6.3570894E		6.35804346		6.5443301E		DATA	583	
199	628	6,31849156	01.	6,2831553E		6.24071915	01.	6.1931237E	01,	DATA		
00	679	6.14175306	01.	6.08740905	01:	6.0309167E	01.	5.9726450		DATA		
01	The second second	TA CRHOON 6	111142	53.201		*******		4 E 4 4 . A .	GAL	DATA		
02	631			3,855820==	01	5: RA48489E	04	8 YES4414E	04			_0
		5,91368836	04			5,8018152E		5.7554114E		DATA		
03	632	5.72102508	01.	5.7031062E	01.	3,70529168		5.0295377E			588	
04	633	5,7754969E	01,	5.8403458		5,9191179E		6.0054245E			589	
05	634	0.0923375E	01.	6.17322258	014	6,24238858	01.	6.29551738		DATA	590	
106	635	6.32988418		6.3444051E	014	5.83955148	01.	6.8171602E		DATA		
107	636	6,2801584E		6,23221948		6.17733215		6.5194240E		DATA		
008	637	6.0619154E	01.	6.0074443E	04	5.9577198E		5.01-8-04	0.1			
		5 03503035	04					5.9139791		DATA		
09	638	5,8752397E		5.8426878E	074	5.81610428		5.7962011	01:	DATA		
10	639	5.7843620E		5.7925202E	014	5,79277498	020	9.8168266E	01/			
111	DA	TA TEMOON !	111182	89,3241/						DATA		6
112	641	5,8553786E	01.	5.9076755E	01.	5.97131528	91.	6.04233315	01.	DATA		-
	642	6,1158603E		6.1861986E		6-2479303E		6.2962180E				
113		6 32728485	01.									-
13	643	6.32728688		6.83872425		648296575	011	6.8008140E		DATA		
114	4 4 4					A. PRENANCE	0.4	4 8564 9745		D		
114	644	6,25447178	074	6.1942945E		6432504056	471	6.85213745	011	DATA		
14 15 16	645	5,98113628	01,	5.9170955E	014	5.8639953E	01.	5.8245143E	01.	DATA		
114		5,98113625 5,7988799E	01,		014	5,8639953E 5,9871389E	01.		01.	DATA	601	

621 622 6:	P 6.1471446E 01: 6.2232461E 01: 6.2730608E 01: 6.81247 DATA (RMOON (1):18325.360)/ 1 6.3276644E 01: 6.3455024E 01: 6.8339281E 01: 6.30228 12 6.2812719E 01: 6:1835756E 01: 5:1033284E 01: 6.81618	365 01/ 285 01: 035 01:	DATA DATA DATA	605 605 607 608	6
625 626 627 628 629 630 631	5.7070049E 012 5.7031700E 012 5.8198844E 012 5.85366 5.7993026E 012 5.8528132E 012 5.9100784E 012 5.96883 6.0254839E 012 6.0809141E 012 6.8340840E 012 6.18463 6.2319070E 012 6.2747398E 012 6.8113359E 012 6.83938 6.3361106E 012 6.3589022E 012 6.813359E 012 6.83938 6.2438177E 012 6.1961598E 012 6.2136493E 012 6.8207	05E 01: 07E 01: 05E 01: 30E 01: 75E 01: 33E 01/	DATA DATA DATA DATA DATA DATA	610 611 613 614 615 616	6
634	END OF MEMBRY USED BY THIS COMPILATION	•	DATA		6
71084 02 11-03	-72 11.801 1978 EPHEMERIS				
PREFACE					
PROGRAM BREA COMBON LENGT V GOUNT BITS	M 0				
RRIMARY SYMDER	ENTRY				
TABLE	. 0				
EBONDARY SYMDER	ENTRY				
BLOCK	LENGTH		-		
1 EPHBLK	11				
SYMREF					
MAP VERSION/ASS	T AVAILABLE LOCATION, EMBLY DATES JMPA 110171/102971 JMPB 110171/202971 HARNING FLAGS IN THE ABOVE ASSEMBLY OF MEMORY WERE USED BY GMAP FOR THIS ASSEMBLY.	JMPC	1101	71/10	297
1 0-197			DATA		
2 3 4 5 6	DIMENSION CASUN (369), DCSUN (369), RSUN (369) DIMENSION R. 7008(369), DCMCON(369), RMCCN(369) DIMENSION ARXAY(2214) DOUBLE PRECISION &		DATA DATA DATA	3 4	
7 8 9	EQUIVALENCE (RASUM, ARRAY), (DCSUM, ARRAY(370)), (RSUM, ARRAY), EQUIVALENCE (RAMODM, ARRAY(1108)), (DEBOOM, ARRAY(1477)) EQUIVALENCE (RMDOM, ARRAY(1646))	739))			
10	Y(1) # ARRAY(1) Y(2) # ARRAY(1+1)				
12	Y(3) * ARRAY(1+2) Y(4) * ARRAY(1+3)				3
15 16 17 18	RETURN  DATA (RASUN (1):10 1: 36)/  1 4.8822881E 00: 4.9015869E 00: 4.9208634E 00: 4.940115 2 4.9593388E 00: 4.9789330E 00: 4.9976955E 00: 5.016824	SE 001	DATA	6 7 8	6
20 1	3 5.0359179E 00. 5.0349741E 00. 5.0739913E 00. 5.892967 4 5.1119024E 00. 5.1307933E 00. 5.1496392E 00. 5.168439 5 5.1871912E 00. 5.2058949E 00. 5.2245491E 00. 5.243152 6 5.26170495 00. 5.2038948E 00. 5.2986516E 00. 5.317044	75 00.	DATA	10 11 12	

24 18 5:4681793E 00: 5:4262282E 00: 5:4442214E 00: 5:4621844E 00: 5	DASA	14	
25 19 5 4000267E 00 5 4976382E 00 5 5155889# 00 5 5338791E 00 1		15	
26 DATA (RASUN 11)118 37. 72)/ 27 21 5.55090856 00: 5.56847776 00: 5.58598715 00: 5.60343715 00: 5	ATA	16	6
28 22 5.62082828 00: 5.63816108 00: 5.48543648 00: 5.67268528 00: 1	ATA	15	
	PATA	19	
	ATA	20	
32 26 5.8918083E 00: 5,9083421E 00: 5,9248340E 00: 5.9412851E 00: E	ATA	33	
	PATA	23 24	
35 29 6.0076930E 00, 6:1030010E 00, 6:1198026E 00, 6:1359894E 00/ E	ATA	25	
	ATA	26	6
	DATA	28	
39 33 6.2796172E 00, 1:2338213E-02: 2:8232037E-02: 4:6123732E-02: [	ATA	29	
	ATA	20	
42 36 1.8712451E-01, 2:0303247E-01, 2:2894870E-01, 2:3487349E-01, E	ATA	31	
	ATA	33	
	ATA	34	
46 DATA (RASUN 61).18109,144,/	ATA	36	6
,一个是一个一个一个一个是一个大型,那些大型的现在是最大的基础的,是是这个电影的的基础的对象。 "这是一个一个是,这是是不是不是一个一个是不是是是不是一个一位,	ATA	37 38	
49 43 5,74002618-01, 5,90476308-01, 6,06990088-01, 6.23536328-01, 8	ATA	39	
90 44 0.4012319E=01, 6.5574520E=01, 6.7340467E=01, 6.9010202E=01, E	APA	40	
	ATA	41	
53 47 8.4214690f=01, 8.5924488E=01, 8.7638499E=01, 8.9356738E=01, D	ATA	43	
	ATA	44	
	ATA	45	6
57 51 1.0300890E 00, 1.0676809E 00, 1.0653101E 00, 1.1029753E 00, D	ATA	47	·
- 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	ATA	48	
그는 그는 그를 가는 그를 보는 그를 보는 그들이 그를 보고 보고 보고 보고 있는 것이다. 그는 그를 보고 보고 있다면 없는 것이다.	DATA	30	
61 55 1.34533348 00, 1.85337318 00, 1.37143048 00, 1.86990438 00, 1	ATA	51	
그는 그	DATA	53	
64 56 1,5526760E 00, 1,5708334E 00, 1,5889896E 00, 1,6071423E 00, E	ATA	54	
	ATA	55 56	4
67 61 1.6977822E 00, 1.7158719E 00, 1.7339445E 00, 1.7519985E 00, E	ATA	57	6
56 62 1,7700321E 00, 1,7880439E 00, 1.8060326E 00, 1.8239968E 00, E	ATA	58	
	ATA	59 60	
71 65 1.96438268 00, 2.00204308 00, 2.01966828 00, 2.83728758 00, 1	ATA	61	
72 66 2.0548101E 0C, 2.0723249E 00, 2.0898008E 00, 2.1072370E 0C, E	ATA	65	
	DATA	64	
75 69 2.2622435E 00, 2.2792438E 00, 2.2961986E 00, 2.3131082E 00/ E	APA	65	
	ATA	66	6
78 72 2.3969829E 00, 2.4136261E 00, 2.4302270E 00, 2.4467862E 00, I	APA	68	
79 73 2.4633051E 00, 2.4797842E 00, 2.4962242E 00, 2.5126259E 00, E	ATA	69	
81 75 2.59408178 00, 2.61026618 00, 2.62641628 00, 2.64253298 00, 5	ATA	70	
82 76 2,6586168E 00, 2,6746687E 00, 2,6996894E 00, 2,7066799E 00, E	ATA	72	
	ATA	73 74	
85 79 2.8494032E 00, 2.8651509E 00, 2.88088196 00, 2.8965980E 00/ [	ATA	75	
86 DATA (BASUN 1::18253[288]/	ATA	75	5
88 82 2.9750161E 00, 2.9906780E 00, 3.0063357E 00, 3.0219907E 00, I	DATA	77	al i iai
89 63 3.0376441E 00, 3.0532973E 00, 3.0689515E 00, 3.8846080E 00, I	APA	79	
	ATA	80 81	
02 86 3 22887485 CO. 1 24458845 CO. 1 28778745 CO. 1 27844905 CO. 1	ATA	95	-
93 87 3.2889458E 00, 3.3047732E 00, 3.8206242E 00, 3.8349094E 00, I	ATA	92	
Ad 60 3'355-640E ANT 3'7083300E ANT 3*80-3000E ANT 3'800845AE DO!	ATA	85	
95 DATA (RASUN (1), 1:289,324)/	ATA	86	ń
97 91 3.48081312 00, 3.4970332E 00, 3.5132950E 00, 3.5295997E 00, E	ATA	87	

98	92 3,5459485E 00, 3,5623425E QO, 3,9787825E QO, 3.5952696E QO,	DATA	88	
99	93 3.61180488 00. 3,62838898 00. 3,64502278 00. 3.66170708 00.	DATA	89	
200	94 3,47844246 00, 3,69522976 00, 3,71206976 00, 3.72896326 00,	DATA	8.0	
201	95 3.7459109E 00, 3.7629138E 00, 3.7799732E 00, 3.7970901E 00, 96 3.8142654E 00, 3.8315002E 00, 3.8487952E 00, 3.8661E13E 00,	DATA	91	
103	A	DATA	65	
304	97 3.8835692E 00, 3.9010491E 00, 3.9185915E 00, 3.9361965E 00, 98 3.9838644E 00, 3.9715953E 00, 3.9893891E 00, 4.8072458E 00,	DATA	93	-
105	99 4.02516516 00, 4.04314676 00, 4.06119016 00, 4.07929476 00/		95	
206	DATA (RASUN [1], 19325, 3601/	DATA	96	6
307	101 4,0974600E 00, 4:1156651E 00, 4:1339689E 00, 4:1523103E 00,		97	
108	102 4.1707002E 00, 4.1891614E 00, 4.2076686E 00, 4.226288E 00, 103 4.2448405E 00, 4.2635029E 00, 4.2822150E 00, 4.3069757E 00,	DATA	98	
110	104 4,3197838E 00, 4,2835039E 00, 4,2822150E 00, 4,3009757E 00, 104 4,3197838E 00, 4,3386382E 00, 4,3575374E 00, 4,3764803E 00,		99	
811	105 4.3954654E 00, 4.414490BE 00, 4.4335549E 00, 4.4526B60E 00,		101	
112	100 4.4717922E 00, 4.4909614E 00, 4.5101617E 00, 4.5293909E 00;	DATA	102	
113	107 4,5486469E 00, 4,5679273E QO, 4,9872297E QO, 4.6069815E QO,			
114	108 4.6258904E 00, 4.6452435E 00, 4.6646078E 00, 4.6839805E 00, 109 4.76335865 00, 4.7227392E 00, 4.7421196E 00, 4.7614971E 00/	DATA		
116	109 4.70335865 00, 4.7227392E 00, 4.7421196E 00, 4.7614971E 00/	DATA		6
117	111 4,7808687E 00, 4,8002324E 00, 4,8195857E 00, 4.8389266E 00,	DATA		0
118	112 4.8882526E 00, 4.8775616E 00, 4.8968516E 00, 4.9161204E 00/		108	
119	DATA (BCSUN 4:): 1 1, 36)/	DATA :	109	
120	121 -4.0882315E-01; -4.0255958E-01; -4.0116213E-01; -3.9963135E-01; -3.9796803E-01; -3.9617297E-01; -3.9424705E-01; -3.9219116E-01;			
122	122 -3 9796803E-01, -3 9617297E-01, -8 9424705E-01, -8 9219116E-01, 123 -3 9600639E-01, -3 8769379E-01, -8 8268972E-01,	DATA		
123	124 -3.80000696-01, -3.7718866E-01, -3.7425496E-01, -8.7120091E-01,	DATA		
124	125 -3,6802796E-01, -3.6473753E-01, -3,6133110E-01, -3.5781019E-01,	DATA		
125	120 -3,54176366-01; -3,50431276-01; -3,46576536-01; -3,42613836-01;	DATA	114	
127	127 -3.38544986-01, -3.34371796-01, -3.80096168-01, -3.25720026-01, 128 -3.21245226-01, -3.16673756-01, -3.1207538-01, -3.07248486-01,	DATA		
128	128 -3.2124522E=01, -3.1667373E=01, -3.120753E=01, -3.8724848E=01, 129 -3.0239868E=01, -2.9745993E=01, -2.924343UE=01, -2.8732372E-01/	DATA	117	
129	DATA (BCSUN (1):19 37, 72)/	DATA		6
230	131 -2,82130266-01, -2,7685589E-01, -2,7150264E-01, -2,6667246E-01,	DATA :		-
231	132 -2,64567378+01, -2,5498933E-01, -2,4934035E-01, -2,4362238E-01,		120	
132	133 -2,3783736E-01, -2,3198724E-01, -2,2607400E-01, -2.2009957E-01, 134 -2,1406586E-01, -2.0797463E-01, -2.0182846E-01, -1.9562867E-01,	DATA		
134	135 -1.89377485-01, -1.8307688E=01, -1.9672898E-01, -1.7033880E=01,	DATA		
235	136 -1.6389933E-01, -1.5742169E-01, -1.5090491E-01, -1.4435100E-01,		124	
136	137 -1,3776203E-01: -1,3113992E-01: -1,2448663E-01: -1.1780415E-01:		125	
138	138 -1.1109448E-01, -1.0435950E-01, -9.7601149E-02, -9.8821291E-02, 139 -8.4021795E-02, -7.7204488E-02, -7.6371182E-02, -6.3523655E-02/	DATA :		
139	139 08.4021795E-02, 07.7204488E-02, 07.0371182E-02, 06.3523655E-02/	DATA		
140	141 -5.6663693E-02, -4.9793030E-02, -4.2913393E-02, -3.6026699E-02,	DATA	129	6
141	146 -6,91340028-02; -2,22377038-02; -1,53393028-02; -8,44038918-03;	DATA	130	
142	143 -1,5427264E-03: 5:3518971E-03: 1:2241696E-02: 1:9124885E-02:	DATA	131	
143	144 2,5999748E=02, 3,2864399E=02, 3,9717035E=02, 4.4555863E=02, 145 5,3379099E=02, 6,0184982E=02, 6,4971731E=02, 7.3737868E=02,	DATA	725	
145	145	DATA		
146	147 1:07191308=01: 1:1379500E=01: 1:2036979E=01: 1.2690205E=01:	DATA		
147	148 1,3340213E=01, 1:3986491E=01, 1,4628758E=01, 1.9266979E=01,	DATA	136	
148	149 1.5900958E=01, 1.6530543E=01, 1.7155582E=01, 1.2775922E=01/		137	
149	DATA (BCSUN 61); 1:109,144;/ 151 1,8391401E-01, 1,9001865E-01, 1,9607151E-01, 2.8207093E-01,	DATA		6
151	152 2.0901537E-01, 2.1390311E-01, 2.1973255E-01, 2.2550197E-01,	DATA		
152	153 2,31209848-01, 2,3685445Ec01, 2,4243424E-01, 2.4794750Ee01,	DATA	141	
153	154 2.5339257E=01, 2.5876789EG01, 2.6407180E=01, 2.6930274EG01,	DATA	142	
154	155 2,74459096-01, 2.7953936E001, 2.8454202E-01, 2.89465556-01, 156 2,94308516-01, 2.9906944E-01, 3.0374694E-01, 3.8833966E-01,	DATA		
156	156 2,94308516=01, 2,9906944E=01, 3,0374694E=01, 3.8833966E=01, 157 3,1284619E=01, 3,1726528E=01, 3,2159554E=01, 3.2583873E=01,	DATA		
157	158 3,29984518=01, 3,3404060E=01, 3,3800264E=01, 3,4186935E=01,	DATA		
158	159 3.4563948E=01, 3.4931171E=01, 3.5288478E=01, 3.5635749E=01/	DATA	147	
159	DATA (8CSUN 1), 1 145, 180)/	DATA :	148	6
160	161 3.59728698-01: 3.6299717E-01: 3.6616179E-01: 3.6922138E-01: 162 3.7217486E-01: 3.7502112E-01: 3.7775911E-01: 3.8038783E-01:			
162	162 3,7217486E=01: 3,7502112E=01: 3,7775911E=01: 3,8038783E=01: 163 3,8290626E=01: 3,8531352E=01: 3,8760865E=01: 3,8979089E=01:	DATA		
163	164 3.9185939E-01, 3,9381341E-01, 3,9565230E-01, 3,9737842E-01,			
264	165 3,9898216E-01, 4,8047200E-01, 4,8184452E-01, 4,8309921E-01,	DATA	153	
165	166 4.0423544E-01, 4.0525346E-01, 4.0615228E-01, 4.0693174E-01,	DATA		
266	167 4.07591618=01, 4.0813163E=01, 4.0855163E=01, 4.8865152E=01, 168 4.0903124E=01, 4.09077E=01, 4.0903019E=01, 4.8884954E=01,	DATA :		
168	169 4.08548928=01, 4.0812851Ec01, 4.0758852E=01, 4.8692915Ec01/	DATA		
169	DATA (805UN (17,14181,216)/	DATA :	158	6
470 171	171 4.04.5072E=01, 4.05.25353E=01, 4.04.23778E=01, 4.03.0448E=01, 172 4.0185356E=01, 4.0048567E=01, 3.9900145E=01, 3.9740147E=01,	DATA	59	
1/1	172 4.0185356E_01, 4.0048567E_01; 3_9900145E_01, 3.9740147E_01,	DATA	160	

72 73	174	3,9568646E=01	1, 3;0541191Ra01;	3.9191424E-01, 3.5302267E-01,	3.8985856EGQ1, 3.8052387EGQ1,	DATA 161 DATA 162
74		3.7791647E-01		3-7237969E-01.	3.694524266011	DATA 163
75 76		3,6642065E-01		3 4 6 1 0 2 7 7 5 - 0 1 .	3.56710296a01, 3.42373356a01,	DATA 165
77	178	3.3854933E-0	1. 3.3463195E-01.	3-3062261E-01.	3.2652264Ec01,	DATA 156
8		3.2233337E-01		3.13692506-01,	3.0924869E=01/	DATA 167
9	DAT	A (DCSUN (1)	. [ +217, 252)/		100 0 111111	DATA 168
0	181	3.04711296-01	1. 3.00096655501.	2,95401246-01,	2.9062642Ee011	DATA 169
1	182	2.85773705-01	1, 2,8084440E=01,	2,7583990E=01,	2.7076156Ec01	DATA 170
2	183	2,6561069E-01		2,55097308-01.	2.497377355011	DATA 171
3	184	2.44311595-01		2,83265878-01,	2.2764945E-01	DATA 172
4	185	2,21972778=0		2410444936-01,	2.04596935001	DATA 173
6	187	1.9869499E=0: 1.7457961E=0:		1,8673564E-01, 1,6223959E-01,	1.80681416001	DATA 174 DATA 175
7		1.49728426-0		1.37058868-01.	1.5000458E@01, 1.5066860E@01,	DATA 176
8		1.24243496-0		1.11294338-01,	1.0477320E-01/	DATA 177
9	DAT		11=253,2881/	************	2.6.7.020-001	DATA 178
0		9.83228578-0	2, 9,1644843E002,	8,50406538-02,	7.8411819E-02,	DATA 179
1	192	7.1759855Ec0	2. 6.5086422EG02.		5.2681897E=021	DATA 180
2	193	4.4953689E=0	2, 3,8210791E=02,	3.1454662E=02,	2.6686968E=024	DATA 181
3	194	1.79093876-02	2, 1,1123609E002,	4.83133476-03,	=2.4657342E=03.	DATA 182
4	195 -	9,26590436-0		-5-5898943E-05'	=2.9667743Ee021	DATA 183
5	196 0			-5.0034962E-02,	-5.6868219E=02,	DATA 184
6	197 0	6.35706245-0			68.3776847E-02.	DATA 185
7	198 6			-1,0382776E-01,	e1.1046923Ee01,	DATA 186
8		1.17086848-01		=1,3024313E-01,	-1.4677817E=01/	DATA 187
0		A (BCSUN (1)		=1 = 5618874E=01,	=1.6258782E=01.	DATA 188
1		1.60948196-0		=1.8154509E-01.		DATA 189 DATA 190
\$		1,93963906-0			-1.6777773E-01, -2.1222379E-01,	DATA 191
3		2.18204176-0		-2.2999351E-01,	=2.3579844E=01,	DATA 192
4		2,41540816-0		-2.9283036E-01,	92.5837382Ee01	DATA 193
5			1, =2.6924871E=01,			DATA 194
6		2.85003346-0		-2.9511260E-01,	-3.0004324E=01	DATA 195
7		3.04888676-0		=8-1431606E-01,	-3.1889416E=01,	DATA 196
8	209 0	3.23379336-0	1, -3.2776965E-01,	-8-3206319E-01,	=3.4625815Ee01/	DATA 197
9	DAT	A LOCSUN (1)	1 = 329,360)/			DATA 198
.0		3.4035264E-0			-3.5201487E=01,	DATA 199
1		3.55689185-01				DATA 200
2		3,69273745-01			93.7824830E9011	DATA 201
.3		3,84000745-01				DATA 202
5		3.9078066E-01		08.9491601E-01.		DATA 203
6			1, 04,0528595E=01,		=4.8298487E=01,	DATA 204 DATA 205
7	218 -	4.0772768E-0	1, -4,0827032E=01,	-4-3867669E-01.	64.8894454E001	DATA 206
8	219 -	4.0907961E-0	1, 94,0907574Es01.	04-0893485E-01,	64.4865689E001/	DATA 207
		A (BCSUN (1)		***************************************	A THE WEST OF WAY	DATA 208
9	221 -	4.0824195E-0	1, 04.0769013Ec01;	-4,0700176E-01,	64.0617713E601,	DATA 209
21	555 -	4.05216666-0	1, -4.0412086E-01,			DATA 210
2	DAT	A LASUN (1)	11: 11 361/			DATA 210
3	231	9.84003986-01	1, 9.8398503Ec01,	9,8396990E-01,		DATA 211
4	232	9.8395209E-0	1, 9,8394992Ec01,	9,8395269E-01,	9.8396070Ee01,	DATA 212
5	233	9.8397440E-0		9,8401924E-01,	9.8405075E=011	DATA 213
6	and the same of th	9.8408852E-0		9.8418286E-01.	9.84239415001	DATA 214
7	235	9.8430218E=0: 9.8461238E=0:	1. 9:8437101EG012	9-8444577E-01:	9.8452626EQ01,	DATA 215
18 19	237	9.8500659E-0		9,8480010 = 01, 9,8522929 = 01,	9.8490112E201, 9.8534593E201,	DATA 216 DATA 217
0		9.8546550E-0		9,8571408E-01,	9.4584314Ee01,	DATA 218
1		9.85975358-0	1, 9,8611110Ec01,	9,86250626-01,	9.8639418Ee01/	DATA 219
2		A (RSUN (1)	11 37, 72,/		THE PRESENTATION AND A STATE OF THE PERSON A	DATA 220
3	241	9.86542196=0	1, 9.8669472E=01,	9.8685195E-01,	9.8701406E=01,	DATA 221
14	242	9.8718125E-0	1. 9.87353516-01.	9.87530926-01.	9.87713476001	DATA 222
15	243	9.8790120E=0	1, 9.8809395Ec01,	9.8829164E=01,		DATA 223
56	244	9.88701286-0	1, 9,88912766601,	9.8912829E-01,	9.8934756Fe011	DATA 224
37	245	9.89570346-0	1, 9,89796125001,	9,90024516-01,	9.90255125-01:	DATA 225
38	246	9.9048745E-0	1. 9.90721445601.	9,90956956-01,	9.9119384Ea011	DATA 226
39	247	9.9143185E-0	1. 9.91671315-01.	9,91912386-01.	9.92155285-011	DATA 227
40	248	9.9240027E-0		9,92897108=01,		DATA 228
41		9.93404285-0		9.93922876-01.	9.94186645-01/	DATA 229
2	DAT		118 73,108,/	0 04004055-04	0 05074495	DATA 230
3		9.94453476-0		9.9499605E-01,	9.9527167Ea01	
44	5 W 70	9,95550096-0	1. 9.95831025-01.	9,96114196-01,	9.963993452011	WAIR ZOZ

245	253	9.9468623E=01, 9.9697436E=		9.9755865E-01,	
246	254	9.9784193E-01, 9.9813089E-	11 9098419255-01,	9.9870477E@Q1.	DATA 234
247	255	9.98993028-01. 9.99278255-		9.9984592E-01,	DATA 235
248	256	1,0001286E 00: 1,0004107E	1.00069245 00.	1.8009739E 00:	DATA 236
249	257		0. 1.00181895 00.		DATA 237
250	258		0. 1.0029507E 00.	1.80323508 00.	DATA 238
251	259	1.00351986 00, 1.80380496		1.8043754E 00/	DATA 239
252		TA (RSUN \$1); 1:109, 1441/			RATA 240 6
253	261	1.0046605E 00, 1.0049448E	0, 1.00522802 00,	1.00550965 00.	DATA 241
254	262				
		1,0057893E 00. 1:0060668E			DATA 245
255	263	1,0068818E 00, 1.0071470E		1.0076672E 00:	DATA 243
256	264		0. 1,00842316 00.	1.8086691E 00.	DATA 244
257	265		01 1,0093919E 00.	1.60962828 00.	DATA 245
258	266		0, 1.01032564 00,	1.0105546E QD.	DATA 246
239	267	1.0107822E 00, 1.0110080E	0. 1.01123228 00.	1.9114544E 00.	DATA 247
260	268	1.0116749E 00, 1:0118930E	0. 1.0121085E 00.	1.8123209E 00.	DATA 248
261	269		0, 1-01293628 00,	1.0131328E 00/	
362	The second secon	TA (RSUN \$1) . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1	***************************************		DATA 250 6
263	271		0, 1.0136928E 00,	1.0138693E 00.	DATA 251
264	272				
	273		0. 1,01436805 00.	1.61452435 00.	DATA 252
265	274		0. 1.0149660 00.		DATA 253
266	617		01 1401549818 001	1.8156224E 00.	DATA 254
267	275		10. 1.0159769E 00.	1.0160891E 00:	DATA 255
268	276		0. 1.01640726 00.	1.0165060E 00.	DATA 256
259	277	1.0166007E 00, 1.0166909E	0. 1.01677636 00.	1.8168565E 00:	DATA 257
270	278		0. 1.0170632E 00.	1.0171204F 00.	DATA 258
271	279	1.0171715E 00, 1.0172166E		1.0172890E 00/	
272	DA				DATA 260 6
273	281		0: 1.0173550€ 00:	1.8173665E 00:	DATA 261
274	282		0. 1.0173719E 00.	1.01736516 004	DATA 262
275	283				
			0. 1.01732235 00.	1.01730125 00.	DATA 263
276	284		0: 1-01721878 00:	1.8171842E 00.	DATA 264
277	285		0. 1.0170560E 00.		DATA 265
278	286		D. 1.0168162E 00.	1.8167424E 00.	24TA 266
279	287	1.0166627E 00. 1.0165772F	0. 1.0164859E 00.	1.8163889E 00:	DATA 267
280	268		0. 1.01606426 00.	1.8159454E 00:	2AT4 268
281	289	1.0158215E 00, 1:0156930E	0. 1.01556028 00.	1.0154233F 00/	DATA 269
282	DA'	TA (RSUN   1)   1:217,252)/			PATA 270 6
283	291	1.0152825E 00, 1.0151384E	0. 1.0149911E 00.	1.91464106 00.	DATA 271
284	292	1.0146886E 00, 1.0145336E	01 1001437605 00.	1.8142158E 00.	DATA 272
285	293		0. 1.01371845 00.	1.41354595 00:	DATA 273
286	294		0. 1.0130045E 00.	1.0120155E QQ.	DATA 274
287	295	4	0. 1.01222116 00.	1.8120138E 00.	DATA 275
288	296		0. 1.0113648E 00.		DATA 276
289	297	1.0109111E 00, 1.0106786E	0. 1,01044258 00,		
290	298		0 1 00047145 00	1.01020368 00.	DATA 277
		1,0099618E 00, 1,0097176E		1.0005529E 00'	DATA 278
291	299	1.00897478 00, 1.00872488	0. 1.00847398 00.	1.6082222F 00/	
292		TA (RSUN 11) 11853.2881/	17 174112122		DATA 280 6
293	301	1,0079699E 00, 1:0077167E		1.8072065E 004	DATA 281
294	303	1.0069491E 00, 1.0066899E	0. 1.00642868 00.	1.80616525 00.	DATA 282
				1.9050871E 00.	DATA 283
296	304	1.0048112E 00, 1:0045328E	0. 1.0042519E 00.	1.9039688E 00.	DATA 284
297	305	1.00368346 00, 1.00339616	0. 1.00310718 00.	1.8028167E 00.	DATA 285
298	306	1.00252518 00, 1.00223298	0. 1,0019400 00,	1.8016481E 00.	DATA 286
299	307	1.00135648 00, 1.00106568		1.8004876E 00.	DATA 287
500	308	1.0002010E 00, 9.9991594Ec		9.9934985E=01,	DATA 288
801	309	9.99068515-01, 9.9878811Ec	1, 9,9950844E-01,	9.9822932Ee01/	
302	DA		#1 545.120044#=071	1.105tadkran11	
B03	311	9.97950526-01, 9.976719360	1, 9,9739347E-01,	4 6774RAMETA	DATA 290 6
804	812		0 0400016	9.97119035001,	DATA 291
	313	1140404040404		9.9600065Eg01.	DATA 292
805			1: 9,95135365-01,	9.9488793E-011	DATA 295
B06	314	9.9461126E-01, 9.943358866		9.9379059E=011	DATA 294
807	315	9,93521486-03, 9,932552150		9.9273258E=01,	DATA 295
808	316	9.92477018-01, 9.9222528Ec		9.91733356-011	DATA 296
809	317	9.9149311E=01, 9.9125649Ec		9.90703448-01:	DATA 297
#10	318	9.9056658F=01, 9.9034265Ec	1, 9,90121476-01,	9.8990290Ee01,	DATA 298
411	319	9.8968679E-01, 9:8947304E-		9.8905227Ea01/	DATE 299
\$12		TA (RSUN \$1) . 1 . 325 . 360 1/		TATE OF BALLEANTA	
613	321	9.8884508E=01, 9.8864011E-	1. 9.88437478-01.	0 99919105204	DATA 300 0
114	355		0 83437475	9.88237305-01	DATA 301
B · R			1. 9,07633438-01.	9.87465635-011	DATA 302
115	323	TOUR TARESTORY TO THE TOP TO THE	11 9,86927725-011	9.86758135-011	DATA 303
816	324	9,8659410E=01, 9,8643562E=		9.8513566Ee01.	DATA 304
\$17	325	9.85994356-01, 9.85858666-	1. 9.85728498-01,	9.85603658-01,	DATA 305

	-04 -01		A********	A . A P A P A P A A A	A 1= 2=0.000.
G18 819	326 9 327 9	8548395E=01, 8505305E=01,	9.8536924Ec01, 9.8495632Ec01,	9.85259308001	9.855989780012 SATA 306 9.84774648012 DATA 307
850	828 9	84689368-01	9.8460766Ee01.	9,84529508-01,	9.8449488Fac1, DATA 302
921		8438366E-01,	9.84316246-01;	9,8425286=-01,	9.8417380E=01/ DATA 309
123		185UN (1) 183 84139318-01,	9,84009798-01,	9.84045578-01,	9.8400696E201. DATA 310 6
#24	332 9.	. 3397442E-01,	9.83748016-01	9,83927878-01,	9.8391413E-01/ DATA 312
825		[RAMOON(I)   I =	1, 361/	********** NA	DATA 312 6
826 827		1907936E 00,	1,4202633E-01,	5,7102290E 00, 3,4608056E-01,	5.9582956E 00, DATA 313 5.9749249E301; DATA 314
\$28	\$43 8,	.0837272E-01,	1:0299945E 00.	1.2526584# 00.	1.4757#41E 00. DATA 315
829		6978491E 00,	1.9174081E 00.	2.1329502E 00.	2.3437521E 00. DATA 315
830	345 2	5697366E 00,	2,7518034E 00, 3,5619878E 00,	2.9515853E 00, 3.9790711E 00,	3.1513374E 00. DATA 317 4.9078958E 00. DATA 318
\$31 \$32	847 4,	.2504201E 00.	4,5068691E 00;	4,97497638 00,	5.8499093E 00, DATA 319
333		3253641E 00,	5,5994819E 00.	5,85647398 00.	6.1071175E QO. DATA 320
834 835	349 6:	50605715=02, (RAMOGN&I)   I	2,9866554E=01, 37, 721/	5 2709053E=01.	7-5240857EEQ1/ DATA 321 DATA 322 6
#36	351 9	74342046-01,	1,1995413E 00.	1.6220946E 00.	1.6433849E 00, DATA 323
837	352 1	8624118E 00,	2.0781426E 00.	2,28985028 00,	2.4973541E CO. DATA 324
538 539	353 2 854 3.	7011265E CO. 5089470E OO.	2.9022816E 00; 3.7202557E 00;	3.8024965E 00, 3.9403669E 00,	3.3039001E 00, DAYA 325 4.1713042E 00, DAYA 326
540	355 4,	41433786 00,	4.6687865E 02.	4,93223296 00,	5.2005823E 00: DATA 325
841	356 5	46893848 00,	5.7331555E 00.	5,99070228 00,	6.2408615E 00, DATA 328
842 843	357 2 358 1	0109741E-01,	4.3912188E=01, 1.3599766E 00,	6,73181626-01,	9.84386778601, DATA 329
844		02126138 00,	2:2337071E 00:	1.5839441# 00: 2.0420389# 00:	1.\$045707E 00: DATA 330 2.646887CE 00/ DAYA 331
545	DATA	(RAMODN61) +1+	73,108,/		DATA 332 6
846 847		8493624£ 00,	3.0509910E 00; 3.8883320E 00;	3,2536227E 00,	3,4593209E 00. DATA 333
343		5975691E 00,	4.8509415E 00;	4,3152450E 00. 5,1090229E 00.	4.3517717E QQ. DATA 334 5.3684143E QQ. DATA 335
849	364 5	6260564E 00.	5.8799315E 00.	6-1293027E 00.	9.4303796E=02, DATA 336
550		3319547E-01,	5,7272951E=01.	8.10476898-01,	1.9464197E DO: DATA 337
851 852		27995026 00, 17108736 00,	1.5100739E 00. 2.3808663E 00.	1.73573718 00. 2.58644378 00.	1.7561621E 00: DATA 338 2.7892603E 00: DATA 339
353	368 2	99113196 00,	3.1941253E 00.	3.4004287E 00.	3.6121933E 00, DATA 340
\$54	369 3	8313125E 00.	4,0591190E 00,	4,29602408 00.	4.54120708 00/ DATA 341
855 856		(BAMOON&1), IE3	3.0469932E 00;	5,5012730E 00,	5,5527790E QO, DATA 343
857	372 5	8001086E 00,	6.9431698E 00.	6,28288088 00,	2.37482078-01: DATA 344
B58		1673807E-01.	7.1235389E=01.	9.5039020 -01.	1.1879820E 00. DATA 345
859 860		4235301F 00,	2.520 206E 00.	1.8811948# 00. 2.7241138# 00.	2.1007332E 00: DATA 346 2.9251826E 00: DATA 347
861	376 3	1266373E 00,	3.3311002E 00,	3,54119838 00,	3.7593194E 00, DATA 348
862		,9872526E 09,	4.2257126E 00.	4.4738680E 00.	4.7291468E 00. DATA 349
863 864	378 4 379 5	9876242E 00,	5.7450206E 00; 6 :196833E 00;	1,68572068-01,	5.7444343E 00: DATA 350 3.9981321Ee01/ DATA 351
865	DATA	[RAMODN41, + I es	45,180,/		PATA 352 6
866		31994346-01,	8,6604548E-01;	1,10177878 00,	1.8378717E 00, DATA 353
\$67 \$68		5721861E 00,	2,6583625E 00,	2,85904155 00,	2.2436337E QO: DATA 354 3.8584045E QO: DATA 355
569	884 3	2993091E 00,	3.4647964E 00:	3.47787848 00.	3.9012100E 00, DATA 356
670		1365780E 00,	4.38423012 00,	4. 4422849E Cg.	4.9066835E 00. DATA 357
871 872	386 5	1720608E 00,	1,1774393Ecc1,	5:68703788 00. 3-66206048-01.	5.9321029E 00: DATA 358 5.7401641E501: DATA 359
373	388 8	0299043E=01,	1.0339431E 00.	1,26549788 00.	1.6991634E 00. 4 A 360
374	389 1	7297335E 00.	5 95592016 00.	2417599388 00,	2.3892044E 00/ 34 A 361
875 876	391 2	18AMOON61, 14:	2,7973962E 00.	2,99578965 00,	3.1937143E 00. DATA 362 6
277	3,5 3	39417346 00,	3,4003659E 00.	3.8154606E 00.	4.8422039E 00: DATA 364
£78	393 4	2823201E 00,	4.5357234E 00	4.99989838 00.	5.6609693E 00, DATA 365
879 880		.33999388 90, .20532408-02,	2,9463005E-01;	5.86028338 00. 5.23920408-01.	7.52149848001, DATA 367
881	396 9	80796248-01.	1,210332DE 00,	\$ 4401656E 00.	1.46883628 00: DATA 368
632	397 1	8944519E 00,	2,1152469E 00.	Z. F3006855 00.	2.535511 00. DATA 360
884		7616537E 00,	2.9405531E 00; 3.7432895E 00;	3,96020745 00,	3.83491968 QQ: DATA 370 4.1890775E QQ/ DATA 371
885	DATA	CRAMODM61 ) # I # I	217,2521/		DATA 372 6
885	401 4	.43127615 00.	4,6863528E 00.	4,95154286 00.	5.2220402E 00. DATA 373
\$87 \$88	402 5	4922424E 00.	5.7574242E 00; 4.6014927E-01;	6.9390685\$ 00.	9.25950558001, DATA 376
889	404 1	.15704418 00,	1,3871077E 00;	1.61530755 00.	1.8403753E 00. DATA 376
890	405 2	04100848 00.	2.2762637E 00.	2,48582148 00,	2.6900618E 00. DATA 377

864 404 2'a4449484 08 % 1088888 08	9 98499845 AA
\$91 406 2;89012656 00; 3,18759578 00; \$92 407 3,68485018 00; 3;59732286 00;	3.28457806 90: 3.6634664E 00: DATA 378
7.1	4.31725256 QQ. 4.34637596 QQ. DATA 379 5.10655996 QQ. 5.37218168 QQ. DATA 380
\$94 409 5.637354RE 00, 9.8449579E 00,	
895 DATA (BAMOON (1) (1 + 255 1288)	D. P
\$96 411 3.6874379E=01, 6:1133459E=01,	8,51386165-01, 1.9892717E 00, DATA 363
\$97 412 1.8846936E 00, 1.5968107E 00,	
898 413 2.22327618 00, 2:433728c8 00;	2.03809078 00: 2.8398033E 00: DAYA 385
899 414 3,0881783E 00, 3,2358834E 00;	3-43303198 00: 3.4376270E 00: DATA 386
400 415 3,86642648 084 4,06273688 004	
401 416 4,24723358 00, 5,01844928 00,	4.28814998 QQ. 4.5231873E QQ. DAYA 387 5.27408128 QQ. 5.5311347E QQ. DAYA 388
402 417 5,78715398 00, 6:04074728 00,	0-4733471E-03, 2.57247345-01, DATA 389
403 418 5.06683532-01, 7.51286968-01,	9-96877578-01, 1,2464736E 00, DATA 390
404 419 1.4804903E 00, 1,7151792E 00;	1.94312618 QQ, 2.16361598 QQ/ DATA 391
405 DATA (BAMORHAL) . 1 22 9 . 324)/	DATA 392 6
421 2,37677138 00, 2,38349048 00,	2,76527895 00, 2.9840588E 00, DAYA 393
407 422 3,18203506 00, 3,38140735 00,	3.58453948 QQ, 3.7935027E QQ, DATA 394
468 423 4.01001298 00, 4.23512268 00,	4,46892788 00, 4.71037678 00, DATA 399
409 424 4,98734986 00, 3.20710398 00,	5.4569625E 00, 5.7051138E 00, DATA 396
410 425 5.99078485 00, 4:1944208E 00;	1.74037878-01, 3.97447138-01, DATA 397
411 426 6,42549468-08, 6,89549118-01;	1,23745578 00, 1.38414968 00, DATA 398
412 427 1,62680228 00, 1,86304318 00,	2,8908608E 00, 2.3097655E 00, DATA 399
413 420 2,52037616 00, 2,72425368 00,	2,92359398 00. 3.1209643E 00. DATA 400
414 429 3.3191051E 00, 3.5207677E 00,	3.7295351E 00. 3.9445713E 00/ DATA 401
415 DATA (RAMOGNET) 41, 325, 360 1/	DATA 402 6
416 431 4,17026768 00, 4,4058268E 00;	4.6499459E 00, 4.8998545E 00, DATA 403
417 432 5,18189478 00, 5,40251438 00,	5,6492357E 00, 5.8911681E 00: DATA 404
418 433 6,1289554E 00, 8,115110 Ec02,	3.16353858-01, 5.93523098-01, DATA 405
419 434 7,94021416-01, 1:0380169E 00:	1,28416198 QQ, 1.52977308 QQ, DATA 406
420 435 1.2215084E 00. 2.4063215E 00.	2.23226596 QQ. 2.4486472E QQ. DATA 407
435 1.77150848 00. 2.4063215E 00; 471 436 2.68692808 00, 2.8584012E 00;	3,05982326 00, 3.2521384E 00, DATA 408
422 437 3.4804723E 03, 3.6539565E 90,	3.86590528 00, 4.8874643E 00, DATA 409
425 438 4.3211004E 00, 4,5660167E 00,	4,81979238 00; 5.9782503E 00, DATA 410
424 439 5.32651685 00, 5.59047056 00,	5.83779178 00, 6.8782424E 00/ DATA 411
425 DA"& (RAMOON\$[), [1361,368]/	DATA 412 5
426 441 3.0058995E-02, 2,6199860E-01;	4,93521546=01, 7.26906936=01, DATA 413
427 442 9.68522258-01, 1.20340198 00;	1.44509000 00, 1.68591338 00/ DATA 454
628 DATA (#CMOON41), 11 1; 36,/	DATA 414 6
629 451 -2.96251645-01, -2.5228647E=01,	01,9211900E-01, 01.2128985E001, DATA 419
430 432 -4,52854646-02, 3.10492476-02,	1.83739658-01, 1.4957125E601, DATA 416
431 453 2.28930328-01, 2.70691448-01;	3.02209258-01, 3.19374048-01; DATA 417
432 454 3,2175890E-01, 3,0964386E-01,	2.84002558-01, 2.4636243Ee01, DATA 418
433 455 1 DRA41478-01. 1.4901769F-01?	8,1082779\$=02, 1.5548462EG02; DATA 419
634 656 cp.1990707Ee02, -1.1793336E001,	01,00692695-01, 08.36510495-01, DAYA 420 08,21443735-01, 08.99773735-01, DAYA 421
935 95/ 96,51491978011 93,11103760011	08,21443738-01, 08.8977373F001, DATA 421
#75 475 G2.7586970ko01, G2.7237967E=01,	01,542643GE=01, 07.3592395E=02, DATA 422
437 459 1.6567940E=03, 7.8346573E=02.	1.4843708E-01, 2.9891445E-01/ DATA 423
633 DATA (BCHOON41) 14 37; 721/	947A 426 6
639 461 2,37600008-01, 2,9298460E-01;	3.14128675-01, 3.20690638-01, DATA 429
640 462 3,18734365-01, 2,9112511E-01,	2,57079938-01, 2.12278058-01, DATA 426
645 1.58672328-01: 9:84399748-02:	3.3847450E-02, =8.2743645E-02, DATA 427
	er. 18630618-01, 92.66511568-01, DATA 428
443 465 -3.00335365-013.13003906-01.	-8,1604616E-01, -2.9294630E-01, DATA 449
444 466 -2,49364116-05, -1,8835400E-01,	-1.14911788-01; -8.90493956-02; DATA 430
445 467 4.78324726-02. 1.20659256-01.	1.87100518-01, 2.41609848-01, DATA 431
446 468 2,62307718-01, 3,0820328R-011, 447 467 2,97235108-01, 2,6641889R-01,	3419028315-01, 3.451042089012 DATA 432
447 469 2.9723510E-01, 2.6661889R-01;	2.84773038-01: 1.#347771E001/ DATA 433
048 DATA (SCHOOM 1) 11 73 100 1	\$1,50168068-02, \$8.29939078-02, DATA 435
473 -1.47320215-08, -2.05934715-01;	GR. 95591928-01, GR. 92973028-01, DATA 436
473 -3,14926126-01, -3,18899178-01,	68.0324164E-01, -2.4867839E-01, DATA 437
474 -2,15140398-01, -1,47948088-01,	-7.82989558-02. 9.24938158-03: DATA 438
953 475 8.6£136948-02, 1.60252438-01.	2,21596568-01, 2.69278418-01: DATA 459
454 476 3.01418476+01: 3.18054188+011 455 477 2.27940728+01: 2.39113998+01;	3.18888098-01, 3.9506670BGC1, DATA 440
	1.90325978-01, 1.83438218-01, DATA 441
	-6.44617178-C21.60000698-01; DATA 442
658 DATA (BCMOQN41); 1 \$189,1441/ 659 461 63,21813165608, 68,11651605681;	DATA 444 6
451 e3;21813168e01; e8;11031608c01; 450 432 e1;2252038e01; e1;00086478e01;	GB.81209988-01, G2.83967288-01, DATA 449
640 432 -1,72252038-01, -1,00085478-01, 661 463 1,32198478-01, 1,98408768-01,	GR:1918326E-02: 5.71250275c02: DATA 446
	2,93234778091, 2,92847498001; DATA 447
662 485 2.5899/37601, 2.10000748601,	3-1443109E-01, 2.9144191E-01, DATA 449
	1.75381346-01, 9.40623728602. DATA 449

```
04.03594738002; 01.08970238001; 01.73431738001; 02.78213478001; 03.2028460801; 03.24381978001; 02.49369918001; 04.91188018001;
                                          2,80642178-02;
-2,31302608-01;
464
                              486
                                                                                                                                                                                                          DATA 450
                              487
465
                                                .31302605-01,
                                                                                                                                                                                                           DATA 451
                                        -3.18625718-01. -2.93106026-01.
-1.21843668-08. -4.59985798-02.
-174 (8CM00N41), [8145.180]/
1.76749578-01. 2.35703628-01.
$66
$67
                                                                                                                             3.49326014-02,
                                                                                                                                                                     1.67571048-01/
468
                                                                                                                                                                                                           DATA
                                                                                                                          2,81332008001,
3,8432038801,
1,49291158001,
-1,47752038-01,
                              491
                                                                                                                                                                     3.1147787E-01,
2.7316179E-01,
                                               29128206-01,
30434308-01,
470
471
                              492
                                                                                     3.2343369Ec01;
                                                                                                                                                                                                           DATA
                              493
                                                                                     1.78400948-01.
                                                                                                                                                                      5.4911880B502.
                                                                                                                                                                                                                       457
                                                                                                                                                                                                          DATA
                                          -1,2638946E-02,
-2,6189968E-01,
472
                              494
                                                                                                                                                                  -2.8932423E-01.
                                                                                   -6.1093644E-021
                                                                                   28.0120024Ec01.
                              496
                                          -3,0547775#-01,
                                                                                  -2.66191268-01.
1.06906758-02.
2.68684878-01.
                                                                                                                          -2.10332808-01.
8.67871008-02.
3.69737798-01.
                                                                                                                                                                  01.42398985e08:
1.57361308e08:
3.23204225e01:
 474
                              497
475
475
                              498
                                                1891738E-01.
                                               .2412703E=01.
(BCMOON(1))[1:1]
(99335926=01.
                                                                                     3.13979565-01.
                                                                                                                             2.87283608-01.
                                                                                                                                                                      2.4832893Ee01/
 478
                                                                                     61,2161/
1,4254399E-01/
                                                                                                                          8.00923098-02.
                                                                                                                                                                     1.4041676Ee02,
                              502
                                                                                  21:20205005001:
                                                                                                                                                                  a8.3978448Ea01
480
                                                                                                                                                                                                           DATA 466
                                                                                 -3.15547628-01.
-2.83093898-01.
                                                                                                                           -8.26776778-01,
                                                                                                                                                                  03.46436188001e
681
                              504
                                          -2,8437660E-01:
                                                                                                                          1.80728418-01
682
                                                                                                                                                                   ₽, 1533062Ee02.
                                                                                                                                                                     2.02800376001
                                          -1,2287319E-02,
483
                              505
                                                                                     6.585796066021
                                               .55524788-08,
.18864688-01,
.61477558-01,
                                                                                                                            3-18356108-01: 7.26410886001:
2-61700398-01: 2.15059285001:
3-61957978-02: -5.83286035-02:
                                                                                     2,94504808-01;
2,9673558E-01;
484
                                                                                                                                                                     7.26410885001, DATA 470
                              507
485
                                                                                                                                                                                                          DETA 478
                                                                                     1,00852526001.
486
                              508
                                                                                                                                                                                                          DATA
                                                                                                                                                                                                                       472
                                     DATA (BEHOOM 1) 1 217, 252 / 03, 03164698-01, 03, 22957556-01, 03, 22753158-01, 08, 90758168-01,
487
                              309
                                                                                                                                                                                                          CATA
                                                                                                                                                                                                                       473
488
                                          3,91943026-01.
                                                                                                                          01,82449988-01, =4.17941608-02,
1,84958738-01, 2,41710988-01,
490
                                                                                  -1.96407778-01.
                                                                                                                                                                                                          DATA 476
401
                              513
                                                                                     1:1659760Ec01,
                                                                                                                                                                     3.20900656601. DATA 478
492
                                                84647105-014
                                                                                     3,1242583EGQ1.
                                                                                                                             3.2447922E-01:
                                                                                 2:71348218G01: 2:8528378-01;
5:37701798-02: -1:22679208-02:
-2:0077469E-01: -2:71699178-01;
                                                                                                                                                                  1.86472565e01.
=7.83412175e02.
=2.91476475e01.
                              515
493
                                             3.02789978-01.
                                                                                                                                                                                                          DATA
                              516
517
                                          1.17451398=01.
494
495
                                                                                                                                                                                                           DATA
                                                                                  -3,24600P&5=01, -6,12222015-01,
-1,5731734E-01, -7,60367946-02,
                                                                                                                                                                  -2.78927595-01,
5.50072548-03/
496
497
                                          -2.26080748-01,
                                                                                  -1.5731734E-01.
                                     DAYA (#CMOONAL) 1114253,288)/
3,71286346-03, 1,61500716-01,
498
                                                                                                                             2.2448028E-01,
3.23143365-01,
1.9030353E-01,
                                                                                                                                                                     3.6850521 001.
                              522
                                                                                     3.22589256501.
2.40176826501.
$00
                                                .04177178-01.
                                                                                                                                                                                                          DATA 486
901
                              523
                                             2.80248185=01,
                                                                                                                                                                     1. 2277113#0011
                                                                                                                                                                                                          DATA
                                                                                 3:75592178=034 96+2986488=024

92:41111278=011 92+83608068=014

93:19835988=011 92+836988=014

91:14837458=011 93:27620498=024

2:01073068=011 2:57717128=014
                                          0.9814970E-02.
-1.8819837E-01.
                              524
525
                                                                                                                                                                  91.278696555011
93.12663105901.
902
                                                                                                                                                                                                          DATA
                                                                                                                                                                                                                      438
903
                                                                                                                                                                  92.90391045011
304
                              526
                                               25470706-01.
                                                                                                                                                                                                          DATA 490
905
906
                                               .89113266-01,
.3085970E-01,
                                                                                     2.0109306E001;
3.2679897E=01;
907
                                              3.22036296001,
                                                                                                                             3,36300978-01,
                                                                                                                                                                      2.91389078501/
                                     DATA (ACMOONAL) (16289.324)/
2.56025606-01: 2.66313766-01;
908
                                                                                                                          1,50357358-01,
                                                                                                                                                                     8. $2748636-02:
                                                                                  -4,5381222E002
                              532
510
                              933
934
935
                                               31107075-08,
                                                                                  -2.7719744E001
                                                                                                                          e3e19125638-01,
                                                                                                                                                                  -8.2712694E-01.
211
                                                                                                                          -R+63192755=Q1.
1+94443615=Q2.
2+85456465=Q1.
                                                                                                                                                                  9.70553486001
9.70553486002
3.16914786001
2.71217348601
4.57135028502
                                                                                  -3.26403746-01.
-6.70127046-02.
2.36476036-01.
3.25394398-01.
912
                                               26188776-08
                                          -1.41915456-08,
515
                                                                                                                                                                                                           DATA 499
                                             1.12379915-08
                              536
319
                                                                                                                                                                                                           DATA
                                                                                                                                                                                                                      500
                                                                                                                        3,05220496m01,
1,31116546m01,
01,55741728m01,
                                                                                                                                                                                                                       501
                              538
                                          2.2400355E-01,
-2.2170927E-02,
                                                                                       .7190980E=01:
716
                                                                                                                                                                                                                       508
                                                                                  09.02101992002,
                                                                                                                                                                  22.1569240Fa01/
                                                                                                                                                                                                                       503
918
                                                                                                                          .3,27472228-01, .3.8168179E-01,
                                          -3,1453229E-01,
-9,2837397E-02,
2,1270938E-08,
                                                                                                                          00781713398001, 01.471901280011
6078200328002, 1.444224980011
3007816368001, 3.29381495001
                                                                                  2.825415972014
01.50514752027
2.60274418001
920
                              542
                                             3.32589928-01, 3.18716858-01, 3.897816368-01, 3.7976828-02, 3.18716858-01, 2.89272978-01, 1.98796828-02, 1.38734628-01, 7.23349398-02, 6.29203618-02, 61.29777978-01, 61.792382348-01, 2.92678008-01, 61.29268-01, 61.36109818-01, 61.36109811, 61.361368-01, 61.36109811, 61.361368-01, 61.36109811, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61.361368-01, 61
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929
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                                                                                                                                                                     1.9186056E001,
3.44227478001/
                                                                                     2.9361453E001;
1:36./
5:6432617E 01;
930
                                                                                                                                                                                                          DATA 516
                                               (BMOON $1,.10
931
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                                                                                                                             5.08533148 01,
                                                                                                                                                                     5.74711808 01. DATA 517
                                                                                     5.90272288 01: 5.98388608 01: 6.26988018 01: DATA 518
6:1920488 01: 6.26418088 01: 6.28919728 01: DATA 519
6:3668388 01: 6.86927898 01: 6.8692388 01: DATA 520
6:3683888 01: 4.31727898 01: 6.27146078 01: DATA 521
933
934
                              563
563
                                                  32138695 01,
935
936
                              565
                                             0.36550738 01.
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928 567 5.8	\$151556 7\$a 5.759	1827E 01.	6,04559708 01; 5,48078856 01; 5,63235438 01;	5,9494915E Q1; 5,6242773E Q1; 5,692683E Q1;	PATA 523
941 DATA (	BHOOK 61) als 37. 7	21/	5696131258 01.	6.85442528 01/	
\$43 572 6,3			6,27109758 01, 6,87162498 01,	6.41507175 012 6.3677368E 014	DATA 527 DATA 528
245 574 6.1	190605E 01, 6:134	6352E 01;	6.2974786E 01,	5.9771357E 014	DATA 529 DATA 530
347 976 5,6	2512288 01, 5,612	465BE 01.	5,92732496 01, 5,9296666 01,	5.67564318 01;	BATA 531
949 978 6,1	2170418 01, 6,202	7277E 01:	6,26855858 01,	6.8292773E 01.	DAYA 533
991 DAYA (	MHOON (1) 1 th 73710	8,7	6,361890 0 01.	5.84988288 01/	DATA 536 6
555 582 6,1	\$37204E 01, 6.097	9653E 01.	6,2504057H 01,	6.2046473E 01, 5.9738258E 01,	DATA 538
955 584 5,6	930764E 01, 5,676	1613E 01.	5-7813575E 01.	5.82980958 01. 5.81372618 01.	
957 586 6,1	573693E 01. 6,188	3136E 01;	5,9268016E 01,	6.0180205E 01.	DATA 541 DATA 542
999 588 6,2	837417E 01, 6,238	0621E 01.	6,84190250 01,	6.1335267E 01.	DATA 543
961 DATA S	8MOON (1), 14109,14	4,7	5,9756917E U1.	5.9288488 01/	DATA 546 6
\$65 592 5,7	431967E 01. 5.757	4438E 01.	5.8092874# G1, 5.8668205# G1,	5.7814419E 01, 5.7930217E 01,	DATA 548
965 594 6,1	191446E 01, 6.191	5917E 01.	5,9647471E 01, 6,2533968E 01, 6,3256124E 01,	6.8415352E 01, 6.8000815E 01,	DATA 549
367 576 6,2	\$00690% 01. 6,192	6244E 01.	6.1279644E 01, 6.1279644E 01, 5.8885361E 01,	6.2956924E Q1: 6.8609685E Q1: 5.0498878E Q1:	DATA 551 DATA 552 DATA 553
569 598 5.8	322851E 01, 5,805	1878E 01;	5.89760098 01, 5.84930998 01,	5.8985497E Q1, 5.8831638E Q1/	DATA 554
971 DATA (	MMOON 41), 1:149,18	01/	6,0355400E 01,	6.8980006E C1,	DATA 556 6
973 402 6,1	\$10666 01° 6:550	4441# 01i	6.2716342# 01, 6.3216104# 01,	6.8103795E 01: 6.2864053E 01:	DATA 558 DATA 559
575 604 6,2	834486E 01, 6:166	0734E 01.	6,0839716E 01, 5,80131436 01,	6.0076603E 01: 5.7613742E 01:	DATA 560
577 606 5.7	4022645 01, 5,737	4935£ 01;	5.7311164E 01,	5.95696378 01.	DATA 562 DATA 563
579 608 600 580 609 6.2	0886725 01, 5:062 2019758 01, 6:266	2741E 01:	6,1160925E 01, 6,3054586E 01,	6.1692630E 01,	DATA 564 DATA 565
981 DATA (	90716E 01, 6,347	9982E 01,	6.32589156 01,	6.2969\$11E 01.	DATA 565 6
984 613 7,8	3475098 01, 6,162 9490768 01, 5,809	43892 01. 83112 01.	6.07782318 01. 5.73947738 01.	5.4895012E 01.	DATA 569
985 614 9;6 986 615 5;7	434342E 01. 5.663 890557E 01. 5.856 648260E 01. 6.127	14106 01,	5.92699906 01.	5.8303957E Q1. 5.9979204E Q1.	DATA 570 DATA 571
988 617 6.2	171024E 01, 6.313	1965E C1,	6418361205 01. 4.\$710159E 01.	6.2337143E 01.	DATA 572 DATA 573
590 619 6.2	43685 01. 6.172	6164E 01.	6.08500138 01.	6.29881318 01, 5.99394688 01/	DATA 574 DATA 575
992 621 7,8	RMOON 11, [14217,25	15538 01;	5,71961158 01,	5.6563657E 01.	DATA 576 6
994 623 5,7	\$64224E 01, 5,828	0427E 01;	5.9160220E 01.	5.67861706 91. 6.0039064E 01.	DATA 578 DATA 579
596 625 6.3	1638408 01, 6,345	69038 01;	6,36437073 01,	6.2759840E 01: 6.8726713E 01:	DATA 581
996 627 6.2	429846E U1, 6.178	2726E 01,	6-1011709E 01, 5-7418278E 01,	5.2962689E 01: 6.8141108E 01:	DATA 563
400 629 5.6	200-725 01. 5.400	3364F 01.	5,00829995 01.	5.5763387E 01, 5.6470859E 01/	DATA 584 DATA 585 DATA 586 6
602 631 5.7 603 632 6.0	RMOON 11), 1:253,28 1152856 01, 5,794 6018756 01, 6,164	9208E 01, 3023E 01,	5,8892984E 01,	5.9867110E 01: 6.2914239E 01:	DATA 587
404 633 6.3	3186118 01, 6,357	19615 01	6.3686260E 01.	6.3676550R 014 6.2642859E 014	DATA 589
606 635 6,2	1624575 01, 6.159	5499E 014	6.09440798 01.	6.92188728 01: 5.22006418 01:	DATA 591
408 637 5,6	4837858 01, 5,638	37572 014	5.87205078 01.	5.9678349E 01,	DATA 593

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71054 02 11:03-72 11:026 1979 EPHEMERIS  PREMACE	
PROGRAM BREAK 4273 COMMON LENGTH O V GOUNT BITS 5	
RRIMARY SYMDEF ENTRY	- 65-
TABLE 0	
SECONDARY SYMDER ENTRY	
BLOCK LENGTA	-
1 ECUBLK 11	
SYBREK	
END OF BINARY CARD #1979#19 4273 IS THE NEXT AVAILABLE LOCATION. GMAP VERSION/ASSEMBLY DATES JMPA 110171/102971 JMPB 110171/102971 JMPC 110171/10297 THERE HERE NO MARNING FLAGS IN THE ABOVE ASSEMBLY ** 19411 HORDS OF MEMORY HERE USED BY GMAP FOR THIS ASSEMBLY.	71
71054 02 12-03-72 11.837 1980 SPHEHERIS	
1 C+1+6C+ 1980 EPHEMERIS DATA 1 2 SUBROUTINE TABLE DATA 2	
3 DIMENSION RASUN (369): DCS:N (369), RSUN (369) DATA 3 4 DIMENLION RANDOM(369), DCMOON(369), RSOON(369) DATA 4	
5 DIMENSION ARRAY(2214)	
DOUBLE PRECISION V 7 EQUIVALENCE (RASUNIARRAY), (DESUN, ARRAY(370)), (RSUN, ARRAY(739))	_
6 EQUIVALENCE (RAMDOM, ARRAY(1108)), (DEMOON, ARRAY(1477)) 9 EQUIVALENCE (RAMOOR, ARRAY(1806))	
10	
12 Y(2) 4 ARRAY(1+1) 13 Y(3) 4 ARRAY(1+2)	2

DATA	15 RETURN				5
19 12 4 9144446 00, 4 9737798 00; 4972744 00; 3,140778 00; DATA 9 20 14 7 117478 00; 5,1407447 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5,1407470 00; 5	16 DATA (MASUN 41) 518			6	6
19				8	
22	19 13 5.03117828 00,	. #502444E 00: 5:0692744E 00. 5.4882664E 00.		9	
22 16 5.2872107 00 5.277318 00. 5.27941941 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.422408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 00. 5.424408 0	20 14 2,1072187E 00,	1261299E 00; 5-1449980E 00; 5.1638818E 00;			
17	22 16 5.25721078 00.				
28	23 17 5,34099468 00,	3492469E 00: 543674805E 00, 5.3856549E 00:	DATA	13	
27 21 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,					
28 22 3 64891795 00 9 54839707 00 1 7107378 00 9 54831643 00 9 7.808441 00 0 DATA 19 10 24 7 71381546 01 9 7107378 00 9 54878052 00 2.5004476 00 DATA 19 10 24 7 71381546 01 9 7107378 00 9 54878052 00 2.5004476 00 DATA 20 31 25 7 81114706 01 9 7107378 00 9 54878052 00 2.5004476 00 DATA 21 32 20 7 8077952 01 2 10743274 00 9 72525378 00 2.5014676 00 DATA 21 32 20 7 8077952 01 2 10632744 00 9 72525378 00 0 6.187446 00 DATA 23 32 20 7 8077952 01 2 10632744 00 9 72525378 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26 DATA (BASUN 11)11:	7. 731/			6
29 23 5 (48599918 00) 5 (1273358 00) 5 (196139 00) 5 (196139 00) 24 1 20 1 20 24 5 (1381456 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (170738 00) 5 (1	27 21 5,54653924 00,				
10. 24 5,1381566 00. 5,17073786 00. 5,97970026 00. 2,0044726 00. DATA 21 32 26 5,8119706 00. 5,8379142 00. 5,9736038 00. 5,87361250 00. DATA 21 32 26 5,8119706 00. 5,8379142 00. 5,9736038 00. 5,87363038 00. DATA 22 33 27 5,700205 00. 5,9703260 00. 6,803459 00. 6,803459 00. DATA 23 34 26 6,0351786 00. 6,8137796 00. 6,8073460 00. 6,803459 00. DATA 23 35 26 7,9702050 00. 6,1357038 00. 6,8073460 00. 6,803459 00. DATA 23 36 30 ATA (18894 11.04 791101)/22 00. 6,8073460 00. 6,803860 00. DATA 24 37 27 27 27 27 27 27 27 27 27 27 27 27 27	29 23 5.68559936 00,				
32	30 24 5,72381568 00,	1707378E 00: 547876082E 00: 5.0044276E 00:	DATA	20	
33 27 5,9700708E 00. 9.9865840E 00. 6.8026819E 00. 6.8036949E 00. DATA 23 34 28 6.095674E 00. 6.1159038 00. 6.23749E 00. 6.803690E 00. DATA 24 35 29 6.098674E 00. 6.1159038 00. 6.3319703E 00. 6.803690E 00. DATA 24 36 JATA (LARAW   11/11 73/103) 00. 6.3319703E 00. DATA 25 36 JATA (LARAW   11/11 73/103) 00. 6.3319703E 00. DATA 26 37 31 0.14406481 01. 6.18025/2E 00. 6.2959855E 00. 6.275775E 00. DATA 26 38 32 0.227779E 00. 6.243724E 00. 6.2959855E 00. 6.275775E 00. DATA 26 39 33 0.4692838E-03. 2.48390225-021 4429089E-02. 5.467829E-02. DATA 26 40 34 7.2564259-02. 8.79330.774-021 13050754E-01. 1.356145E-01. DATA 30 41 35 1.355672E-01. 1.5143510E-01. 1.473175E-01. 1.356145E-01. DATA 30 41 35 1.355672E-01. 1.5143510E-01. 1.473175E-01. 1.364518E-01. DATA 31 42 36 1.77103759-01. 2.5501020E-01. 2.475175E-01. 1.364518E-01. DATA 32 43 37 2.4888304E-01. 2.7573850E-01. 2.47517F-01. 2.460326E-01. DATA 32 44 35 3.267341E-01. 3.42770383001. 3850884E-01. 3.74035E-01. DATA 33 45 39 3.103810E-01. 4.714531E-01. 4.022972E-01. 5.75156E-01. DATA 34 45 37 3.413810E-01. 4.714531E-01. 4.022972E-01. 5.75156E-01. DATA 34 45 37 3.413810E-01. 4.714531E-01. 4.022972E-01. 5.75156E-01. DATA 35 46 47 47451E-01. 5.3719077E-01. 5.3739081E-01. 5.75156E-01. DATA 36 47 47451E-01. 5.3719077E-01. 5.3719077E-01. 5.4031075E-01. DATA 36 48 48 48 48 48 48 48 48 48 48 48 48 48 4					
34 28 6,0851788 08, 61851798 00; 6.1855703 00; 6.185389018 00; DATA 28 35 29 6.0980748 00; 6.1155038 00; 6.13517038 00; 6.180189 00; DATA 28 36 DATA (8ASWA 11)18 731081; 32 37 31 0,1440464 09; 6.1805728 00; 6.2982558 00; 6.2787758 00; DATA 28 38 32 0,2277798 00; 0.24372418 001; 6.25982558 00; 6.2787758 00; DATA 28 39 33 0,9803838=03; 2.43590228=02; 4.4290898=02; 5.4472458002; DATA 29 40 34 7,23564281=02; 8.7930178=021; 1.3143510=01; 1.731785=01; DATA 29 41 35 1,3556782=01; 1.5143510=01; 1.731785=01; 1.3507348=01; 1.3561435001; DATA 31 42 36 1,7710378=01; 2.15010208=01; 2.45072748=01; 1.3661435001; DATA 31 42 36 1,7710378=01; 2.15010208=01; 2.45072748=01; 1.3661435001; DATA 31 43 37 6,2481304=01; 2.1701030001; 2.45072748=01; 2.46682278001; DATA 31 44 38 3,2423311=01; 3.12279031001; 3.48038518=01; 3.4703758001; DATA 33 45 40 41 4:5713511=01; 3.12279031001; 3.48038518=01; 3.4703758001; DATA 34 46 41 4:5713511=01; 3.12279031001; 3.48038518=01; 3.4703758001; DATA 34 47 48 48 48 48 48 48 48 48 48 48 48 48 48	33 27 5.9700908 00.				
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36 32 0, 2479785 00 0 524978216 00; 6.296785 00 6.279775 00 DATA 28 39 33 6 4903835-03; 24399022024 6.298955 00 6.279775 00 DATA 28 39 33 6 4903835-03; 24399022024 6.298056-02; 5.4152196-02; DATA 28 40 34 7, 255428-01; 151435108-01; 1.63208956-02; 5.4152196-02; DATA 28 41 35 1, 3555828-01; 151435108-01; 1.63208956-02; 5.4152196-02; DATA 30 41 35 1, 3555828-01; 151435108-01; 1.63208556-01; 1.63208536-01; DATA 31 42 36 1, 9703775-01; 2.57038001; 2.59274378-01; 1.63208576-01; DATA 31 43 37 2, 62813048-01; 2.787630010; 2.99741378-01; 1.63208576-01; DATA 33 44 30 3, 24753418-01; 417149518-01; 4.2332088-01; 3.4073756-01; DATA 33 45 39 3, 0103405-01; 417149518-01; 4.2332088-01; 3.40935536-01; DATA 33 46 DATA (ASWM 11; 12.0914-01; 4.2332088-01; 3.49305358-01; DATA 35 47 41 5, 5771318-01; 5.77790776-01; 9.53586188-01; 3.749356-01; DATA 36 48 42 5, 2644738-01; 5.77790776-01; 9.53586188-01; 5.806478518-01; DATA 38 49 43 5, 6446478-01; 5.77790776-01; 9.5358618-01; 5.806478518-01; DATA 38 49 43 5, 6446478-01; 5.77790776-01; 9.5358618-01; 5.806478518-01; DATA 38 49 43 5, 6446478-01; 5.77798778-01; 9.5358618-01; 5.806478518-01; DATA 38 49 43 5, 6446478-01; 5.77798778-01; 9.5358618-01; 5.806478518-01; DATA 38 49 43 5, 6446478-01; 5.77798778-01; 9.5358618-01; 5.806478518-01; DATA 38 49 43 5, 6446478-01; 5.77798778-01; 9.5358618-01; 5.806478518-01; DATA 48 49 5, 6446478-01; 6.7878728-01; 6.7878728-01; 6.78978568-01; DATA 48 49 5, 6446478-01; 6.7878728-01; 6.78978568-01; 6.78978568-01; DATA 48 49 6, 7898988-01; 6.78978728-01; 6.78978568-01; 6.78978568-01; DATA 48 55 6					
36 32 0 22777956 00, 624372416 00; 62292555 00, 627877516 00, DATA 28 30 33 6 490388503 2 43990226024 402260502, 74.76296020, DATA 20 40 34 7, 2556428602 8, 279330176024 40380756801 1, 1984163601, DATA 30 41 35 1, 3556428601 1, 1514350801 1, 453453601 1, 1984536020, DATA 31 42 36 1, 9103738001 2, 2550120601 2, 2809278601 1, 198453601 2, DATA 32 43 37 2, 2683044601 2, 7307360601 2, 2809278601 2, 26082278601 DATA 32 44 30 3, 2475341601 3, 1427903801 3, 5508480 801 3, 7493050601 DATA 34 45 39 3, 1203618001 4, 120561801 4, 47082978601 4, 4708073801 DATA 34 46 DATA (48888 11;12, 12091441/ 47 41 4, 5771336001 4, 7108328601 4, 47082978601 4, 47080738601 DATA 36 48 42 5, 2864738601 5, 7374907601 2, 75938618001 5, 7451561801 DATA 36 49 43 5, 846647801 6, 0229776601 1, 824846861 801 5, 7451561801 DATA 38 49 43 6, 846647801 6, 0229776601 1, 824846801 5, 1570738601 DATA 38 50 44 9, 8164922003 9, 9622872801 4, 98598771801 7, 828874801 DATA 40 51 45 7, 194691801 7, 150479801 7, 7530004801 7, 7828874801 DATA 41 52 46 7, 849036501 7, 150479801 7, 7830004801 7, 7828874801 DATA 42 53 47 4, 810419020 1 8, 7218035801 8, 983871801 7, 7828876801 DATA 42 53 47 4, 810419020 1 8, 7218035801 8, 983871801 9, 78390159601 DATA 43 54 46 7, 849036501 8, 7218035801 8, 983871801 9, 78390159601 DATA 44 52 46 7, 849036501 8, 7218035801 8, 983871801 9, 8290159601 DATA 43 54 47 9, 810419020 1 8, 7218035801 8, 983871801 9, 8290159601 DATA 44 55 74913877801 1, 1917878 901 1, 19288901 0, 18282708 901 DATA 48 55 40 9, 9138479801 1, 191889 1807 1807878 901 1, 19289901 0, 18282708 901 DATA 48 56 75 1, 14464380 00 1, 15178848 00 1, 16282708 00 1, 1833335 00 DATA 47 57 57 1, 14464380 00 1, 15178848 00 1, 16282708 00 1, 1833335 00 DATA 47 58 57 1, 14464380 00 1, 1517888 00 1, 16282708 00 1, 1833335 00 DATA 47 59 57 1, 1446480 00 1, 161878 901 1, 16282708 00 1, 18282708 00 DATA 48 57 7, 1446480 00 1, 161878 901 1, 16282708 00 1, 16282708 00 DATA 48 59 57 1, 1446480 00 1, 161878 901 1, 16282708 00 1, 16282708 00 DATA 48 59 57 1, 1446480 00 1, 161878 901 1, 1					0
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42 36 1,9103758-03, 2:5501205-01, 2:45027948-01, 2:46838278-01, DATA 32 44 36 3.2473445-01, 3:4279035901, 3:49848918-01, 3:7490505-01, DATA 34 45 39 3:2473445-01, 3:4279035901, 4:8938248-01, 4:8939535-01, DATA 34 46 DATA (888W 11:18-09144) 47 41 41 3771318-01, 7:795288-01, 4:8931972-01, 3:749055-01, DATA 35 48 42 5.2664738-01, 5:3719975-01, 5:538818-01, 5:74915-010, DATA 36 49 43 5.3446478-01, 6:029746-01, 6:029748-01, 6:04828-01, 6:047035-01, DATA 37 49 45 45 5.446478-01, 6:029746-01, 6:04828-01, 5:701035-01, DATA 39 50 44 9.81649025-03, 6:4283726-01, 6:45967718-01, 7:484678-01, DATA 39 51 45 7:1446918-01, 6:029746-01, 6:45967718-01, 7:424678-01, DATA 39 51 45 7:1446918-01, 6:03873208-01, 7:5390948-01, 7:484678-01, DATA 39 51 45 7:1446918-01, 6:03873208-01, 7:5390948-01, 7:484678-01, DATA 39 51 45 7:1446918-01, 6:03873208-01, 6:45967718-01, 7:484678-01, DATA 39 52 46 7:48903148-01, 6:03873208-01, 6:2088465-01, 0:74828-01, DATA 39 53 47 6:3804308-01, 6:03873208-01, 6:2088465-01, 0:379428-00, DATA 39 54 48 9:21899955-01, 9:11678678-01, 9:289905-01, 0:39925-01, DATA 39 55 49 9:3326700-01, 1:0178979-01, 9:282905-01, 1:89925-01, DATA 49 55 5 49 9:3326700-01, 1:017897-00, 1:0886308-01, 9:39019-02, DATA 49 56 5 DATA (8:30W 11) 1:44-120, 000 1:0986308-00, 1:16383338-00, DATA 49 57 51 1:0884038-00, 1:5578848-00, 1:48955-00, 1:1638338-00, DATA 49 59 53 1:2523778-00, 1:2527878-00, 1:489585-00, 1:1638338-00, DATA 49 59 53 1:2523778-00, 1:2527878-00, 1:489585-00, 1:16383388-00, DATA 49 57 51 1:0884038-00, 1:5578848-00, 1:489585-00, 1:16383388-00, DATA 49 59 53 1:2523778-00, 1:2527878-00, 1:489585-00, 1:16383388-00, DATA 49 50 54 1:2528778-00, 1:1678978-00, 1:489585-00, 1:16383388-00, DATA 49 50 54 1:2528778-00, 1:2527878-00, 1:489585-00, 1:489585-00, DATA 49 50 54 1:2528778-00, 1:1678978-00, 1:489585-00, 1:489585-00, DATA 59 50 54 1:2528778-00, 1:1678978-00, 1:489585-00, 0:169885-00, DATA 59 50 54 1:2528778-00, 1:1678978-00, 1:489585-00, 0:169885-00, DATA 59 50 54 1:2528778-00, 1:1678978-00, 1:489585-00, 0:169885-00, DATA		1.5143510Fe01; 1.6731785Fe01; 1.6390463Fe04;			
44 38 3.227341501. 3.4279035601. 3.4984881601. 3.746305601. DATA 34 45 39 3.91036100-01. 4.726675601. 4.8950535601. DATA 35 46 DATA (888W filele.09fi44) 47 41 41 4.571318001. 5.37198976001. 4.8921972601. 5.7601035601. DATA 35 48 42 5.2084738001. 5.37198976001. 5.93586108-01. 5.701035601. DATA 36 49 43 5.8466756-01. 6.0285746501. 5.93586108-01. 5.701035601. DATA 36 49 43 5.8466758-01. 6.0285746501. 6.19484288001. 6.8667585601. DATA 36 49 43 5.8466758-01. 6.0285746501. 6.1948428801. 6.8667585601. DATA 36 49 43 5.8466758-01. 6.0285746501. 6.1948428801. 6.8667585601. DATA 36 49 43 5.8466758-01. 7.324797601. 6.3548771-021. 7.699758601. DATA 40 51 45 7.1146918-01. 7.324797601. 7.330949901. 7.699758601. DATA 40 51 45 7.1146918-01. 6.0287328601. 6.208646-01. 6.3794228601. DATA 42 52 46 7.8993048-01. 6.0287328601. 6.2085701-021. 7.699758601. DATA 42 53 47 6.3804390501. 6.72183078601. 6.9386701-021. 7.699758601. DATA 44 45 6.3804390501. 6.72183078601. 6.9386701-021. 7.8590159601. DATA 44 55 49 7.9332470501. 6.116766601. 7.50385701-021. 7.8590159601. DATA 44 55 49 7.9332470501. 6.116766601. 7.50385701-021. 7.8590159601. DATA 44 55 49 7.9332470501. 6.116766601. 7.50385701-021. 7.50385800. 0.118482708. 00. DATA 45 56 DATA (485W 11.1814]. 1.501/ 57 51 1.08340038 00. 1.08109028 00. 1.0282908 00. 1.8482708 00. DATA 45 59 53 1.20523378 00. 1.2378848 00. 1.4849856 00. 1.2849766 00. DATA 48 59 53 1.20523378 00. 1.2378848 00. 1.4849856 00. 1.2849766 00. DATA 48 59 53 1.20523378 00. 1.2378848 00. 1.4849858 00. 1.284986 00. DATA 48 59 53 1.26523378 00. 1.36696778 00. 1.493978 00. 1.4938608 00. DATA 49 60 54 1.388968 00. 1.4938378 00. 1.45398570 00. 1.493858 00. DATA 55 61 55 1.3889038 00. 1.50485858 00. 1.45398570 00. 1.4578588 00. DATA 55 62 56 1.71888 00. 1.72888 00. 1.4938378 00. 1.493858 00. DATA 55 63 57 1.4938046 00. 1.5045388 00. 1.4539859 00. 1.4578588 00. DATA 65 64 0.4888 00. 1.4849315 00. 1.4938378 00. 1.4939858 00. DATA 65 65 0.4888 00. 1.4849315 00. 1.2378988 00. 1.457858 00. 1.457858 00. DATA 65 69 62 0.4889 00. 1.4938	42 36 1,99103758-01,	:1501020E=01, 2.8092784E=01, 2.4683827E=01;	DATA		
45 39 3.913.6105.01. 4.8716.518.601. 4.233226.80.01. 4.89509338.601. DATA 35 6  DATA (848UM 11):11.0916.01. 4.7195328.601. 4.08219728.601. 5.745156.18.601. DATA 35 6  46 42 5.26647.531.601. 4.7195328.601. 5.353861.86.01. 5.765156.18.601. DATA 35 7  48 42 5.26647.561.01. 6.22974.66.01. 5.353861.86.01. 5.7061.358.601. DATA 38 7  49 43 5.8646647.601. 6.22974.66.01. 6.35981.86.01. 6.86047.86.601. DATA 39 7  50 44 6.884902.601. 9.62974.66.01. 7.8309.098.01. 6.86047.86.601. DATA 40 7  51 45 7.1944.611.801. 7.52447.98.601. 7.8309.098.01. 7.99755.68.611. DATA 41 7  52 46 7.86903.46.01. 6.0387.22.86.01. 7.8309.098.01. 0.8794.298.601. DATA 42 7  53 47 8.8304.150.01. 9.611.7666.01. 9.5307.718.01. 0.592.298.601. DATA 42 7  54 48 9.2867.9956.01. 9.611.7666.01. 9.5307.718.01. 9.592.298.601. DATA 43 7  55 49 9.282.7956.01. 9.611.7666.01. 9.535.7018.01. 9.75901.56.601. DATA 45 7  56 DATA (88SUM 11):1.149.1801.7 7  57 51 1.66340.03.00. 0.101.0789.7 90. 1.022.990.00. 1.4952.701.001. DATA 45 7  56 52 1.1840.6338.00. 1.151.784.8 00. 1.2695.656.00. 1.8797.748.00. DATA 45 7  56 52 1.1840.6338.00. 1.2537.884.00. 1.2695.656.00. 1.8797.748.00. DATA 45 7  56 52 1.1840.6338.00. 1.2537.884.00. 1.2695.656.00. 1.8797.748.00. DATA 45 7  56 52 1.1840.6338.00. 1.2537.884.00. 1.2695.656.00. 1.8797.748.00. DATA 45 7  56 52 1.1840.6338.00. 1.2537.884.00. 1.2695.656.00. 1.8797.748.00. DATA 45 7  56 52 1.1840.6338.00. 1.2537.884.00. 1.2695.656.00. 1.3695.656.00. DATA 45 7  56 52 1.3680.038.00. 1.3666.778.00. 1.2895.738.00. 1.3368.08.00. DATA 45 7  56 52 59 1.3880.038.00. 1.3666.778.00. 1.2895.738.00. 1.3795.898.00. 1.3795.898.00. DATA 55 7  66 62 1.7885.898.800. 1.8995.800. 1.807.708.00. 1.3795.898.00. DATA 56 7  67 61 1.7885.898.800. 1.2697.800. 1.4879.800. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800. 0. 1.4978.800		7876360E001, 2,9474137F=U1, 3,1073758E001,			
### A		192716651E001, 412332264E001, 4.8950533E001/	DATA		
48	46 DATA (RASUN 11) # 1 # 1	911441/	DATA	36	6
49 43 5.844647 201. 6.29746 01. 6.29746 01. 6.866178 03.01. DATA 39 50 44 6.8264902 03. 6.692872 03. 6.596771 01. 7.82667 48.01. DATA 40 51 45 7.194691 001. 7.36247 98.01. 7.93090 49.01. 7.6267 48.01. DATA 41 52 46 7.6993 04. 6.03673 208.01. 0.2086 46.01. 0.37942 88.01. DATA 42 53 47 6.930 41.00. 1. 7.21830 18.01. 0.2086 46.01. 0.37942 88.01. DATA 43 54 46 9.2385 995 001. 7.21830 18.01. 0.2086 46.01. 0.37942 88.01. DATA 43 55 49 9.2385 9975 001. 7.21830 18.01. 0.2085 101. 0.2595 101. 0.2595 101. DATA 44 55 49 9.2385 9975 1001. 0.1078 97.9 90. 1.0228 900. 0.1. 0.2595 101. DATA 44 55 596 DATA (18.50 11.1) 11.41 19.180 1/ 57 51 1.083 003 1.181 01.0078 97.9 90. 1.0228 900. 0.1. 0.184 28.20 0.0 DATA 45 56 52 1.184 043 10.01. 12.184 19.180 1/ 57 53 1.218 03.00 1.183 10.00 22. 00. 1.189 56.58 00. 1.187 37.44 0.0. DATA 45 59 52 1.184 043 10.01. 12.230 22.00 00. 1.182 93.18 00. 1.23 97.00 00. DATA 47 58 52 1.184 043 10.01. 12.230 22.00 00. 1.182 93.18 00. 0. 1.23 97.00 00. DATA 49 50 54 1.276 97.35 00. 1.223 08.22 00. 1.249 98.04 00. 1.23 97.00 00. DATA 49 50 54 1.276 97.35 00. 1.366 96.72 00. 1.285 97.99 00. 0. 1.478 97.00 00. DATA 49 60 62 56 1.481 299 00. 1.366 96.72 00. 1.285 97.99 00. 1.478 97.00 00. DATA 55 62 56 1.481 299 00. 1.369 97.70 00. 1.398 97.70 00. 1.478 97.00 00. DATA 55 63 57 1.483 04.06 00. 1.351 95.50 00. 1.385 97.99 00. 0.147 95.00 00. DATA 55 64 56 1.286 11.00 00. 1.584 55.00 00. 1.385 97.99 00. 1.478 97.00 00. DATA 55 65 04ATA (18.50 00. 1.578 97.00 00. 1.379 97.00 00. 1.478 97.00 00. DATA 55 66 02 1.783 97.99 00. 1.579 97.10 00. 1.579 97.50 00. 1.478 97.00 00. DATA 55 67 61 1.751 97.50 00. 1.579 97.10 00. 1.579 97.50 00. 1.478 97.00 00. DATA 55 68 62 1.783 97.99 00. 1.579 97.10 00. 1.579 97.50 00. 1.478 97.00 00. DATA 55 69 63 1.885 97.99 00. 1.579 97.10 00. 1.397 97.99 00. 1.478 97.00 00. DATA 55 69 60 60 1.783 97.99 00. 1.579 97.50 00. 1.397 97.50 00. 1.478 97.50 00. DATA 66 69 60 1.783 97.99 00. 1.579 97.50 00. 1.579 97.50 00. 1.585 97.50 00. DATA 67 71 67 71 71 71 71 71 71 71 71 71 71 71 71 7					
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### ### ### ### ### ### ### ### ### ##		.36247596901; 7,93090496901; 7,6997556691;			
### 48					
DATA	54 48 9,23859956-01,	.41167666-01; 9.5851503E-01, 9.25901596-01;		10.7	
58		0107897% 90, 1 <sub>0</sub> 0282900% 00, 1.945%270% 00/			4
59 53 1,2052137E 00, 1,2230827E 00, 1,24098048 00, 1,258958E 00, DATA 40 60 54 1,276873E 00, 1,2948341E 00, 1,318831E 00, 1,30688E 00, DATA 50 61 55 1,346903E 00, 1,3669677E 00, 1,318851E 00, 1,431886E 00, DATA 50 62 50 1,4812599E 00, 1,439383FE 00, 1,4559170E 00, 1,476580E 00, DATA 51 62 50 1,4812599E 00, 1,439383FE 00, 1,4627020E 00, 1,476580E 00, DATA 52 63 57 1,4938046E 00, 1,519551E 00, 1,530177E 00, 1,476580E 00, DATA 53 64 58 1,546410E 00, 1,584550E 00, 1,627020E 00, 1,5482600E 00, DATA 53 65 59 1,4819676E 00, 1,6570871E 00, 1,6771955E 00, 1,693807E 00, DATA 55 66 DATA (DASUN 11,712161,216) 67 61 1,7613742E 00, 1,7294415E 00, 1,7474924E 00, 1,765854E 00, DATA 56 67 61 1,7613742E 00, 1,7294415E 00, 1,891517E 00, 1,989558E 00, DATA 57 68 62 1,783539E 00, 1,8015328E 00, 1,801517E 00, 1,989558E 00, DATA 57 69 63 1,853775E 00, 1,873297E 00, 1,891517E 00, 1,989558E 00, DATA 58 69 63 1,853775E 00, 1,845915E 00, 1,891517E 00, 1,988958E 00, DATA 60 71 65 1,977314E 00, 1,045915E 00, 2,802401E 00, 1,988958E 00, DATA 61 72 66 2,0460578E 00, 2,855530E 00, 2,8025754E 00, 2,8505357E 00, DATA 61 72 66 2,0460578E 00, 2,855530E 00, 2,80280E 00, 2,88585E 00, DATA 62 73 67 2,187287E 00, 2,238488E 00, 2,232754E 00, 2,8505357E 00, DATA 62 73 67 2,187287E 00, 2,238488E 00, 2,223758E 00, 2,2257858E 00, DATA 62 75 69 2,224948E 00, 2,233948E 00, 2,42409410E 00, 2,257885E 00, DATA 64 75 69 2,234728E 00, 2,239959E 00, 2,4427127E 00, 2,82883E 00, DATA 67 78 72 2,4695050 00 2,23995991E 00, 2,4427127E 00, 2,522881E 00, DATA 67 78 72 2,4695050 00 2,23995950 00, 2,4308756E 00, 2,5290314E 00, DATA 67 78 79 2,464506 00, 2,4867356E 00, 2,4503557E 00, 2,454660E 00, DATA 67 80 74 2,543473E 00, 2,4522129E 00, 2,4523957E 00, 2,454660E 00, DATA 76 80 74 2,543473E 00, 2,4522129E 00, 2,4523970E 00, 2,7822881E 00, DATA 76 81 77 2,7846180 00, 2,782380E 00, 2,4823910E 00, 2,484889E 00, DATA 76 80 79 2,640576E 00, 2,452386E 00, 2,4823910E 00, 2,484889E 00, DATA 76 80 79 2,640576E 00, 2,452388E		.0810092E 00, 1,0986930E 00, 1.8169313E 00,	DATA	47	
60 54 1,276873E 00, 1,394834E 00, 1,312835E 00, 1,4312835E 00, 1,431486E 00, DATA 50 61 55 1,3680035E 00, 1,3669677E 00, 1,3589499E 00, 1,4031486E 00, DATA 51 62 56 1,2612899E 00, 1,439837E 00, 1,43783787C 00, 1,4579370C 00, 1,458686E 00, DATA 52 63 57 1,4938046E 00, 1,511951E 00, 1,537937E 00, 1,5482600E 00, DATA 53 64 58 1,2864110E 00, 1,5845589E 00, 1,6027020E 00, 1,562837E 00, DATA 53 65 59 1,389476E 00, 1,5770871E 00, 1,67797595E 00, 1,66387FE 00, DATA 55 66 DATA (BASUN   1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1					
61 55 1,3480035E 00, 1,366067FE 00, 1,3550499E 00, 1.6031460E 00, DATA 51 62 56 1,4812599E 00, 1,4393037E 00, 1,43778170E 00, 1.475680E 00, DATA 52 63 57 1,493046E 00, 1,511951E 00, 1,530177E 00, 1.548260E 00, DATA 53 64 58 1,246410E 00, 1,5045589E 00, 1,6027020E 00, 1.693201E 00, DATA 54 65 59 1.638676E 00, 1,6770871E 00, 1,6751955E 00, 1.693201E 00, DATA 56 66 DATA (BASUM 1,714151216,7 67 61 1,2413762E 00, 1,7294415E 00, 1,87474924E 00, 1.7655854E 00, DATA 56 68 62 1,7855378E 00, 1.8013328E 00, 1,819550E 00, 1.8374544E 00, DATA 57 68 62 1,7855379E 00, 1.6732791E 00, 1,8011317F 00, 1.908950E 00, DATA 58 69 63 1.853795E 00, 1.6732791E 00, 1,8011317F 00, 1.908950E 00, DATA 59 70 64 1,7268076E 00, 1,6732791E 00, 1,8911317F 00, 1.908950E 00, DATA 60 71 65 1,9977314E 00, 2,0157717E 00, 2,0329734E 00, 2.8503357E 00, DATA 61 72 66 2,0480770E 00, 2,0157717E 00, 2,0329734E 00, 2.8503357E 00, DATA 62 73 67 2,1277297E 00, 2,1550409E 00, 2,1272308E 00, 2,2203754E 00, DATA 62 74 68 2,2047124E 00, 2,2359380E 00, 2,2329734E 00, 2,2503754E 00, DATA 63 74 68 2,2047124E 00, 2,233888E 00, 2,2409410E 00, 2,257985E 00, DATA 64 75 69 2,240945E 00, 2,255785E 00, 2,272308E 00, 2,286585E 00, DATA 65 76 71 2,37 2968E 00, 2,233888E 00, 2,2409410E 00, 2,257985E 00, DATA 65 77 71 2,37 2968E 00, 2,23593791E 00, 2,8761277E 00, 2,259284E 00, DATA 65 78 72 2,4695050E 00, 2,4923128E 00, 2,4842127E 00, 2,259283E 00, DATA 65 79 73 2,48758000, 2,4923128E 00, 2,4923128E 00, 2,4923128E 00, DATA 69 80 74 2,2413473E 00, 2,4923128E 00, 2,4938557E 00, 2,492386E 00, DATA 70 81 77 2,464516E 00, 2,4923128E 00, 2,4923737E 00, 2,896388E 00, DATA 70 81 77 2,464516E 00, 2,4923128E 00, 2,4923737E 00, 2,896388E 00, DATA 72 83 77 2,2861854E 00, 2,4923128E 00, 2,8927337E 00, 2,8964829E 00, DATA 73 84 78 2,796951E 00, 2,47700000E 00, 2,8927337E 00, 2,8964829E 00, DATA 73 85 77 2,864516E 00, 2,4770000E 00, 2,8927337E 00, 2,8964829E 00, DATA 75 86 DATA (BASUM 1,1718253,285)7		.2948341E 00: 1.3128351E 00: 1.336888E 00:			
63 57 1.49380466 00, 1.31295516 00, 1.93010746 00, 1.54826066 00, DATA 53 04 58 1.38641106 00, 1.50655696 00, 1.60270206 00, 1.52683676 00, DATA 54 05 59 1.48896766 00, 1.452708716 00, 1.67519556 00, 1.49329176 00, DATA 55 06 DATA BASUN [1,12161,216] 07 61 1.76137426 00, 1.72044156 00, 1.7474246 00, 1.76558346 00, DATA 56 08 62 1.78385986 00, 1.72044156 00, 1.50195956 00, 1.693745446 00, DATA 57 08 63 1.88537956 00, 1.80153286 00, 1.80195950 00, 1.80195956 00, DATA 59 09 63 1.88537956 00, 1.87327916 00, 1.801959516 00, 1.9089508 00, DATA 59 70 64 1.72680986 00, 1.94499156 00, 1.8943418 00, 1.98805386 00, DATA 60 71 65 1.99773148 00, 2.01537176 00, 2.03297346 00, 2.85053576 00, DATA 61 72 66 2.0602786 00, 2.05537176 00, 2.3227346 00, 2.85053576 00, DATA 62 73 67 2.18772976 00, 2.15504096 00, 2.3227346 00, 2.3257546 00, DATA 62 73 67 2.18772976 00, 2.15504096 00, 2.3227386 00, 2.32578586 00, DATA 63 74 68 2.20471286 00, 2.22394886 00, 2.3297986 00, 2.32579585 00, DATA 65 75 69 2.22499456 00, 2.22394886 00, 2.326987866 00, 2.325798956 00, DATA 65 76 71 2.37 / 3686 00, 2.325956 00, 2.32671276 00, 2.32578386 00, DATA 67 78 72 2.4055050 00 2.232594866 00, 2.87612776 00, 2.32578386 00, DATA 67 79 73 2.4134786 00, 2.32597918 00, 2.87612776 00, 2.82500096 00, DATA 67 79 73 2.4257806 00, 2.4221296 00, 2.42612786 00, 2.82500096 00, DATA 69 80 74 2.52134786 00, 2.4221296 00, 2.4873858776 00, 2.82500096 00, DATA 69 80 74 2.52134786 00, 2.4221296 00, 2.4873858776 00, 2.82500096 00, DATA 69 80 74 2.52134786 00, 2.4221296 00, 2.4873858776 00, 2.82500096 00, DATA 69 80 74 2.52134786 00, 2.4221296 00, 2.4808686606 00, DATA 70 81 75 2.66831036 00, 2.4221296 00, 2.4808686606 00, 2.82500096 00, DATA 70 81 77 2.4069518 08, 2.81591206 00, 2.825971008 00, 2.8258016 00, DATA 73 84 78 2.72609518 08, 2.81591206 00, 2.82971008 00, 2.85549016 00, DATA 75 85 79 2.6685108 00, 2.67260000 00, 2.809733776 00, 2.80848996 00/DATA 75 86 DATA 76 2.72609518 08, 2.81591206 00, 2.809733776 00, 2.80848996 00/DATA 75	61 55 1,34890356 00,	3669677E 00. 1.3850499E 00. 1.4031480E 00.	DATA	51	
04	62 56 1,48125996 00,	.4393837E 00: 1,4575170E 00: 1.4756580E 00:			
66 DATA (BASUM (1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,		.5845589E 00: 1,4027020E 00: 1,4208387E 00:			
68 62 1,78353936 00, 1,80153286 00, 1,8195050E 00, 1,83745446 00, DATA 58 69 63 1,853775E 00, 1,273271E 00, 1,8011517E 00, 1,9087950E 00, DATA 59 70 64 1,9268076E 00, 1,947935E 00, 1,943401E 00, 1,9800538E 00, DATA 60 71 65 1,9277314E 00, 2,0153717E 00, 2,0329734E 00, 2,8505357E 00, DATA 61 72 66 2,04005788 00, 2,0855389E 00, 2,3029734E 00, 2,8505357E 00, DATA 62 73 67 2,1877297E 00, 2,1550409E 00, 2,31723086E 00, 2,8865325E 00, DATA 63 74 68 2,245124E 00, 2,2238488E 00, 2,3240410E 00, 2,2579895E 00, DATA 63 75 69 2,244949E 00, 3,2919563E 00, 2,8868756E 00, 2,3257523E 00, DATA 64 75 76 DATA (R WW 11118217,252)/ 77 71 2,37 J868 00, 2,3593791E 00, 2,8761277E 00, 2,3928383E 00, DATA 67 78 72 2,4495080E 00, 2,4261298E 00, 2,4427127E 00, 2,3928383E 00, DATA 68 79 73 2,4197540E 00, 2,4261298E 00, 2,4427127E 00, 2,3928383E 00, DATA 68 79 73 2,4197540E 00, 2,4261298E 00, 2,4427127E 00, 2,392838E 00, DATA 68 79 73 2,4197540E 00, 2,4261298E 00, 2,4306310E 00, 2,826000FE 00, DATA 69 80 74 2,5413473E 00, 2,4524695E 00, 2,45386578 00, 2,8961314E 00, DATA 70 81 75 2,64631636 00, 2,4524695E 00, 2,45386578 00, 2,5546680E 00, DATA 70 82 76 2,6707176E 00, 2,4524695E 00, 2,45386578 00, 2,544680E 00, DATA 73 84 78 2,7669518 08, 2,8139120E 00, 2,879973078 00, 2,7822861E 00, DATA 73 85 77 2,7346130E 00, 2,47203164E 00, 2,4722737E 00, 2,8454901E 00, DATA 73 86 DATA (RASUN 11,718253,288)/		.4570871E 00: 1.6751955E 00: 1.6938917E 00/		55	
68 62 1,78353936 00, 1,80153286 00, 1,8195050E 00, 1,83745446 00, DATA 58 69 63 1,853775E 00, 1,273271E 00, 1,8011517E 00, 1,9087950E 00, DATA 59 70 64 1,9268076E 00, 1,947935E 00, 1,943401E 00, 1,9800538E 00, DATA 60 71 65 1,9277314E 00, 2,0153717E 00, 2,0329734E 00, 2,8505357E 00, DATA 61 72 66 2,04005788 00, 2,0855389E 00, 2,3029734E 00, 2,8505357E 00, DATA 62 73 67 2,1877297E 00, 2,1550409E 00, 2,31723086E 00, 2,8865325E 00, DATA 63 74 68 2,245124E 00, 2,2238488E 00, 2,3240410E 00, 2,2579895E 00, DATA 63 75 69 2,244949E 00, 3,2919563E 00, 2,8868756E 00, 2,3257523E 00, DATA 64 75 76 DATA (R WW 11118217,252)/ 77 71 2,37 J868 00, 2,3593791E 00, 2,8761277E 00, 2,3928383E 00, DATA 67 78 72 2,4495080E 00, 2,4261298E 00, 2,4427127E 00, 2,3928383E 00, DATA 68 79 73 2,4197540E 00, 2,4261298E 00, 2,4427127E 00, 2,3928383E 00, DATA 68 79 73 2,4197540E 00, 2,4261298E 00, 2,4427127E 00, 2,392838E 00, DATA 68 79 73 2,4197540E 00, 2,4261298E 00, 2,4306310E 00, 2,826000FE 00, DATA 69 80 74 2,5413473E 00, 2,4524695E 00, 2,45386578 00, 2,8961314E 00, DATA 70 81 75 2,64631636 00, 2,4524695E 00, 2,45386578 00, 2,5546680E 00, DATA 70 82 76 2,6707176E 00, 2,4524695E 00, 2,45386578 00, 2,544680E 00, DATA 73 84 78 2,7669518 08, 2,8139120E 00, 2,879973078 00, 2,7822861E 00, DATA 73 85 77 2,7346130E 00, 2,47203164E 00, 2,4722737E 00, 2,8454901E 00, DATA 73 86 DATA (RASUN 11,718253,288)/	A7 61 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,216./ . 7204185 00 1 1 14749245 00 1 74588845 00		56	6
69 63 1,8553795E 00: 1:6732791E 00: 1:8911517E 00: 1.9089950E 00: DATA 59 70 64 1.9268096E 00: 1:9445915E 00: 1:9423401E 00: 1.9860538E 00: DATA 60 71 65 1:9977314E 00: 2:0153717E 00: 2:0329734E 00: 2:8505357E 00: DATA 61 72 66 2:0480578E 00: 2:055389E 00: 2:0329734E 00: 2:4503754E 00: DATA 62 73 67 2:1372297E 00: 2:1550409E 00: 2:3229783E 00: 2:4263754E 00: DATA 63 74 68 2:2027124E 00: 2:2238488E 00: 2:22709410E 00: 2:257895E 00: DATA 63 75 69 2:2749945E 00: 2:2238488E 00: 2:2409410E 00: 2:257895E 00: DATA 65 76 DATA (R )UN (1:118217.252)/ 77 71 2:37 J868E 08: 2:3593791E 00: 2:8761277E 00: 2:3928383E 00: DATA 65 77 72 2:4095050E 00: 2:4261298E 00: 2:427127E 00: 2:392841E 00: DATA 68 78 79 73 2:495950E 00: 2:4922129E 00: 2:4506310E 00: 2:550009E 00: DATA 69 80 74 2:5413473E 00: 2:452129E 00: 2:4506310E 00: 2:550009E 00: DATA 69 80 74 2:5413473E 00: 2:45224695E 00: 2:4508575E 00: 2:5546680E 00: DATA 70 81 75 2:4683184E 00: 2:45234695E 00: 2:4527237E 00: 2:6546680E 00: DATA 72 83 77 2:7346130E 00: 2:4867354E 00: 2:452737E 00: 2:6546680E 00: DATA 72 83 77 2:7346130E 00: 2:4867354E 00: 2:45297100E 00: 2:4546490E 00: DATA 73 84 78 2:7960951E 08: 2:8139120E 00: 2:45297100E 00: 2:4546490E 00: DATA 74 85 79 2:8412534E 00: 2:45770009E 00: 2:45927337E 00: 2:454529E 00: DATA 75 86 DATA (8ASUN (1)118253,258)/	68 62 1.78353936 00,	.80153288 00, 140195050E 00, 1.8374544E 00,			
71 07 1,99773146 00, 2,01537176 00, 2,03297346 00, 2,85053576 00, DATA 61 72 66 2,04605786 00, 2,9553896 00, 2,40297836 00, 2,12037546 00, DATA 62 73 67 2,1172976 00, 2,15504096 00, 2,17230866 00, 2,1855256 00, DATA 63 74 68 2,26471246 00, 2,2234886 00, 2,124094106 00, 2,25798956 00, DATA 64 75 69 2,27499456 00, 2,29195636 00, 2,280887566 00, 2,35575236 00/ DATA 65 76 DATA (8) UN 41,11227,232,/ 77 71 2,37 8686 08, 2,35937916 00, 2,87612776 00, 2,39283836 00, DATA 66 78 72 2,46950506 00, 2,42612986 00, 2,470271276 00, 2,39283836 00, DATA 67 78 72 2,46950506 00, 2,49281298 00, 2,490863106 00, 2,52500096 00, DATA 68 79 73 2,41575406 00, 2,49281298 00, 2,490863106 00, 2,52500096 00, DATA 69 80 74 2,54134736 00, 2,49281298 00, 2,497390786 00, 2,59013146 00, DATA 69 81 75 2,46451636 00, 2,62246956 00, 2,93886578 00, 2,59646806 00, DATA 70 81 75 2,464516 00, 2,62246956 00, 2,93886578 00, 2,59646806 00, DATA 71 82 76 2,79609518 08, 2,78051846 00, 2,70272316 00, 2,78225816 00, DATA 73 84 78 2,79609518 08, 2,81391206 00, 2,82971006 00, 2,84540016 00, DATA 73 85 79 2,84125346 08, 2,81391206 00, 2,82971006 00, 2,84540016 00, DATA 75 86 UAYA (8ASUN \$1,718253,288,7)  DATA 76 6	69 63 1.85537958 00 8	. 6732791E 00. 1.8911517E 00. 1.9089958E 00.	DATA	59	
72 66 2,04005788 00, 2,055389E 00, 2,1029783E 00, 2,4203754E 00, DATA 62 73 67 2,1877297E 00, 2,1550409E 00, 2,1723086E 00, 2,186538E 00, DATA 63 74 68 2,2047124E 00, 2,2238488E 00, 2,22409410E 00, 2,2579895E 00, DATA 64 75 69 2,2249945E 00, 2,2919563E 00, 2,28088756E 00, 2,3257523E 00/ DATA 65 76 DATA (8 )UN 11,114217,2521/ 77 71 2,37 JA40E 00, 2,3593791E 00, 2,8761277E 00, 2,3926383E 00, DATA 67 78 72 2,4095050E 00, 2,4261298E 00, 2,44427127E 00, 2,3926383E 00, DATA 68 79 73 2,4157340E 00, 2,4922129E 00, 2,4906310E 00, 2,5280009E 00, DATA 69 80 74 2,5413473E 00, 2,4922129E 00, 2,5739078E 00, 2,5901314E 00, DATA 70 81 75 2,6043183E 00, 2,6224695E 00, 2,6385837E 00, 2,6546680E 00, DATA 71 82 76 2,6707176E 00, 2,68467356E 00, 2,6385837E 00, 2,6546680E 00, DATA 72 83 77 2,2346130E 00, 2,68467356E 00, 2,6385837E 00, 2,6546680E 00, DATA 73 84 78 2,7960951E 08, 2,8139120E 00, 2,8297100E 00, 2,8454901E 00, DATA 73 85 79 2,8612534E 00, 2,6770000E 00, 2,8297100E 00, 2,8454901E 00, DATA 73 86 DATA (8ASUN 11)118253,2681/	70 04 1,9268096E 00e	19449915E 00: 1,9623401E 00: 1,9800538E 00:			
73 67 2.1877297E 00, 2.1550409E 00; 2.1723086E 00, 2.8865325E 00, DATA 63  74 06 2.2047124E 00; 2.2238486E 00; 2.42409410E 00; 2.2579895E 00; DATA 64  75 69 2.2249945E 00; 2.2919563E 00; 2.8088756E 00; 2.3257523E 00/ DATA 65  76 DATA (8 )UN 11;11217,2521/  77 71 2.37 JA68E 00; 2.3593791E 00; 2.8761277E 00; 2.3926383E 00; DATA 67  78 72 2.4095050E 00; 2.4261298E 00; 2.4427127E 00; 2.3926383E 00; DATA 67  79 73 2.4757840E 00; 2.4922129E 00; 2.49066310E 00; 2.7280009E 00; DATA 69  80 74 2.5413473E 00; 2.4922129E 00; 2.49066310E 00; 2.7280009E 00; DATA 70  81 75 2.6653183E 00; 2.4922129E 00; 2.5739078E 00; 2.9951314E 00; DATA 71  82 76 2.6707176E 00; 2.4867356E 00; 2.6388857E 00; 2.654660BE 00; DATA 72  83 77 2.1346150E 00; 2.7805104E 00; 2.7872731E 00; 2.7822861E 00; DATA 72  84 78 2.7960951E 08; 2.8139120E 00; 2.8297100E 00; 2.7822861E 00; DATA 73  85 79 2.8612534E 00; 2.8770000E 00; 2.8297100E 00; 2.8454901E 00; DATA 74  85 79 2.8612534E 00; 2.8770000E 00; 2.8297337E 00; 2.8454901E 00; DATA 74  86 UAYA (8ASUN 11;118253,288)/	72 66 2.04805788 00.	. 9855389E 00, 2,2029783E 00, 2.4203754E 00,			
75 69 2.2769945E 00. 2.2919563E 00. 2.8088756E 00. 2.3257523E 00/ DATA 65  76 DATA (8 TUN \$1;\$1227,252;/ DATA 66 6  77 71 2.37 J868E 00. 2.3593791E 00. 2.8761277E 00. 2.3926383E 00. DATA 67  78 72 2.4095050E 00. 2.4261298E 00. 2.4427127E 00. 2.3926383E 00. DATA 68  79 73 2.4857540E 00. 2.4922129E 00. 2.5086310E 00. 2.5250089E 00. DATA 69  80 74 2.5413473E 00. 2.5576407E 00. 2.5739078E 00. 2.5951314E 00. DATA 70  81 75 2.6063183E 00. 2.6224695E 00. 2.6385857E 00. 2.6546680E 00. DATA 71  82 76 2.6707176E 00. 2.6867356E 00. 2.7027231E 00. 2.7822881E 00. DATA 72  83 77 2.7346130E 00. 2.7505184E 00. 2.7627337E 00. 2.7822881E 00. DATA 73  84 78 2.7960951E 08. 2.8139120E 00. 2.8297100E 00. 2.8454901E 00. DATA 74  85 79 2.8612534E 00. 2.8770000E 00. 2.8927337E 00. 2.9084829E 00/ DATA 75  86 DAYA (8A5UN \$1;\$18253,268;/	73 67 2,18772978 00,	.1550409E 00: 2.1723086E 00. 2.1895325E 00.	DATA	63	
75	74 00 2,2037124E 00,				
77	76 DATA (8 TUN 61) 11 62	7.2321/			6
79 73 2.4857840E 00. 2.4922129E 00. 2.5066310E 00. 2.5250009E 00. DATA 69 80 74 2.5413475E 00. 2.5576467E 00. 2.5739078E 00. 2.5951314E 00. DATA 70 81 75 2.6663183E 00. 2.6224695E 00. 2.6385857E 00. 2.6546680E 00. DATA 71 82 76 2.6707176E 00. 2.6867356E 00. 2.7027231E 00. 2.7186818E 00. DATA 72 83 77 2.7346130E 00. 2.7505184E 00. 2.762731E 00. 2.7822581E 00. DATA 73 84 78 2.7960951E 08. 2.8139120E 00. 2.8297100E 00. 2.8454901E 00. DATA 74 85 79 2.8612534E 00. 2.8770000E 00. 2.8927337E 00. 2.9084829E 00/ DATA 75 86 DAYA (8A5UN [1]][18253,288]/	77 71 2.37 38688 08. 1	35937918 00: 2,87612v7E 00: 2,3926383E 00:	DATA	67	
80 74 2.5413475E 00: 2.5576467E 00: 2.5739078E 00: 2.5951314E 00: DATA 70 81 75 2.6663183E 00: 2.6224695E 00: 2.6385857E 00: 2.6546680E 00: DATA 71 82 76 2.6707176E 00: 2.6867356E 00: 2.7027231E 00: 2.7186818E 00: DATA 72 83 77 2.7346130E 00: 2.7505184E 00: 2.7627231E 00: 2.7822581E 00: DATA 73 84 78 2.7960951E 08: 2.8139120E 00: 2.8297100E 00: 2.8454901E 00: DATA 74 85 79 2.8612534E 00: 2.8770000E 00: 2.8927337E 00: 2.9084829E 00' DATA 75 86 DAYA (8A5UN [1]][18253,288]/	78 72 2,40950508 00 a	1.4221298 00: 2.4271278 00: 2.4592541E 00:			
81 75 2.68631836 00, 2.62246956 00, 2.63858578 00, 2.65466866 00, DATA 71 82 76 2.67071766 00, 2.68673566 00, 2.70272316 00, 2.71868186 00, DATA 72 83 77 2.73461306 00, 2.75051846 00, 2.76277516 00, 2.78225816 00, DATA 73 84 78 2.79609518 08, 2.81391206 00, 2.82971008 00, 2.84549016 00, DATA 74 85 79 2.86125346 00, 2.87700006 00, 2.89273376 00, 2.90848896 00/ DATA 75 86 DAYA (8A5UN [1]][18253,288]/	80 74 2.54134738 00.	\$576467E JOL 259739078E 00. 2.5901314E 00.			
84 78 2.79609518 08: 2.81391208 00: 2.82971008 00: 2.84549018 00: DATA 74 85 79 2.84125348 00: 2.87700008 00: 2.89273378 00: 2.90848298 00/ DATA 75 86 DAYA (8ASUN [1]][18253,288]/ DAYA (8ASUN [1]][18253,288]/	81 75 2.68631836 00,	. A2246958 QQ, 2.83858378 QQ, 2.65466808 QQ	DATA	71	
84 78 2.79609518 08: 2.81391208 00: 2.82971008 00: 2.84549018 00: DATA 74 85 79 2.84125348 00: 2.87700008 00: 2.89273378 00: 2.90848298 00/ DATA 75 86 DAYA (8ASUN [1]][18253,288]/ DAYA (8ASUN [1]][18253,288]/	63 77 2,7346130E 00.	1.7505184E 00. 2.7657997E 00. 2.7862584E 00.			
86 DAYA (8ASUN (1) /18253, 268) / DAYA 76 6		-8139120E 00: 2.8297100E 00. 2.8454901E 00:	DATA	74	
87 81 2:98419968 00, 2:93985908 00; 2:95554038 00, 2:97181678 00, DATA 77	85 79 2.8612534E 00,	0.8770000E 00, 2.8927337E 00, 2.9084929E 00/	DATA		_
	87 81 2:98419966 00,			77	0

88 82 2,986885E 08, 3,002547FE 00, 3,0182675E 00, 3,898867E 00, DAYA 78 89 83 3,089878E 00, 3,055159FE 00, 3,0808102E 00, 3,8964622E 00, DAYA 79 90 84 3,122175E 00, 3,1277776E 00, 3,2808102E 00, 3,295187E 00, DAYA 80 91 85 3,144036E 00, 3,1905008E 00, 3,2806212E 00, 3,221936E 00, DAYA 81 92 86 3,278846E 00, 3,237488E 00, 3,283488E 00, 3,28348FPE 00, DAYA 82 93 87 3,308724E 00, 3,237482E 00, 3,24324E 00, 3,283269FE 00, DAYA 83 94 88 3,3644972E 00, 3,3804252E 00, 3,406212E 00, 3,28521E 00, DAYA 83 95 89 3,485218E 00, 3,444221E 00, 3,450426E 00, 3,468192E 00, DAYA 84 97 91 3,4931461E 00, 3,5935958E 00, 3,594258E 00, 3,474346E 00, DAYA 87 98 92 3,5888774E 00, 3,574177E 00, 3,574277E 00, 3,677759E 00, DAYA 87 99 93 3,624356E 00, 3,640767E 00, 3,574277E 00, 3,6774346E 00, DAYA 89 99 93 3,624356E 00, 3,640767E 00, 3,574277F 00, 3,6774346E 00, DAYA 89 100 94 3,491135E 00, 3,77758032E 00, 3,74279F 00, 3,7417995 00, DAYA 89 100 94 3,691135E 00, 3,77758032E 00, 3,929157E 00, 3,7417995 00, DAYA 89 100 94 3,691135E 00, 3,7758032E 00, 3,929157E 00, 3,7417995 00, DAYA 89 100 94 3,691135E 00, 3,7758032E 00, 3,929157E 00, 3,840050E 00, DAYA 89 100 94 3,691135E 00, 3,7758032E 00, 3,929157E 00, 3,840050E 00, DAYA 99 101 95 3,7867496E 00, 3,7758032E 00, 3,929157E 00, 3,840050E 00, DAYA 99 102 96 3,627571E 00, 3,9851594E 00, 4,9030021E 00, 4,8207950E 00, DAYA 94 105 97 4 0,86875E 00, 4,956893E 00, 4,9407950E 00, A,94050E 00, DAYA 94 105 101 4,1415087E 00, 4,295858E 00, 4,24050PE 00, DAYA 94 105 102 4,84640E 00, 4,2776440E 00, 4,287932E 00, 4,24050E 00, DAYA 98 109 103 4,28894146 00, 4,2776440E 00, 4,284194E 00, 4,24050E 00, DAYA 98 109 103 4,28896146 00, 4,2776440E 00, 4,284194E 00, 4,24050E 00, DAYA 98 109 103 4,2889614E 00, 4,289668E 00, 4,28450E 00, 4,24050E 00, DAYA 98 109 103 4,288961E 00, 4,5825758E 00, 4,5826194E 00, 4,585360E 00, DAYA 98 109 103 4,288961E 00, 4,582651E 00, 4,58360E 00, 4,58600E 00, DAYA 105 110 104 4,88460E 00, 4,582660E 00, 4,58560E 00, 4,585860E 00, DAYA 105 111 4,585858E 00, 4,582660E 00, 4,58560E 00, 4,
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301 95 3,7887498 00, 3:7758032E 00; 3:8461508 00; 3:8519649E 00; 3:875819E 00; DATA 91 302 96 3,8273201E 00; 3:8446130E 00; 3:8319952E 00; 3:84956E 00; DATA 92 303 97 3,8968583E 00; 3:943960E 00; 3:9319952E 00; 3:8496956E 00; DATA 93 304 98 3.9673771E 00; 3:9851594E 00; 4:0030021E 00; 4:8279050E 00; DATA 94 305 97 4:0386675E 00; 6:0568693E 00; 4:0749703E 00; 4:8279050E 00; DATA 95 306 DATA (8ASUN 11;103253360)/ 307 101 4:113087E 00; 4:1295638E 00; 4:3478809E 00; 4:562538E 00; DATA 96 307 101 4:113087E 00; 4:2031704E 00; 4:8227132E 00; 4:2403105E 00; DATA 97 308 102 4:1846840E 00; 4:2775648E 00; 4:8227132E 00; 4:2403105E 00; DATA 99 310 103 4:2589614E 00; 4:2775648E 00; 4:371920E 00; 4:382839E 00; DATA 99 311 105 4:4099370E 00; 4:4290046E 00; 4:371920E 00; 4:592839E 00; DATA 100 311 105 4:4099370E 00; 4:4290046E 00; 4:42401090E 00; 4:424081E 00; DATA 101 312 106 4:4864167E 00; 4:592851E 00; 4:592858E 00; 4:592858E 00; DATA 102 313 107 4:5433718E 00; 4:592851E 00; 4:592858E 00; 4:592858E 00; DATA 103 314 108 4:6906386E 00; 4:5928651E 00; 4:5936816E 00; 4:5987072E 00; DATA 105 315 107 4:7187745E 00; 4:7374431E 00; 4:5936816E 00; 4:87677348E 00; DATA 105 316 DATA (8ASUN 11):183613368/ 317 111 4:7959381E 00; 4:0599873E 00; 4:5936816E 00; 4:593680E 00; DATA 105 319 DATA (8ASUN 41):183613368/ 319 DATA (8BSUN 41):183613368/
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304 98 3.9673771E 00, 3.9851594E 00, 4.0030021E 00, 4.8207050E 00, DATA 94 305 99 4.0388675E 00, 6.0568893E 00, 4.0740703E 00, 4.9951101E 00/ DATA 95 306 DATA (RASUN 61), 1432535400,/ 307 101 4.113087E 00, 6.1295638E 00, 4.1478809E 00, 4.2403105E 00, DATA 96 308 102 4.184680E 00, 4.2031706E 00, 4.827132E 00, 4.2403105E 00, DATA 98 309 103 4.2889614E 00, 4.252763E 00, 4.87964194E 00, 4.3182339E 00, DATA 99 310 104 4.3840768E 00, 4.3529763E 00, 4.87964194E 00, 4.890908E 00, DATA 100 311 105 4.4099370E 00, 4.4290046E 00, 4.9461090E 00, 4.890908E 00, DATA 100 312 106 4.4864187E 00, 4.5056190E 00, 4.9461090E 00, 4.5460981E 00, DATA 101 313 107 4.5633718E 00, 4.5056190E 00, 4.9248463E 00, 4.5460981E 00, DATA 103 314 108 4.4606386E 00, 4.5056190E 00, 4.973448E 00, 4.987072E 00, DATA 105 315 109 4.7187763E 00, 4.7374431E 00, 4.9768116E 00, 4.873772E 00, DATA 105 317 111 4.2853381E 00, 4.813136816 00, 4.87367328E 00/DATA 105 317 111 4.2853381E 00, 4.813148916E 00, 4.9768116E 00, 4.87367328E 00/DATA 108 319 DATA (BOSUM 61), 1436136816 00, 4.971879E 00, DATA 108 319 DATA (BOSUM 61), 143613680E 00, 4.971888E 00/DATA 108 319 DATA (BOSUM 61), 1436136816 00, 4.971879E 00, DATA 108
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DATA (#ASUN \$1], 10325,360,7  101 4,1130876 00, 4,1297636 00, 4,1478809E 00, 4,8662838E 00, DATA 97  308 102 4,1646840E 00, 4,2031706E 00, 4,8217132E 00, 4,2403105E 00, DATA 98  309 103 4,2589614E 00, 4,2776648E 00, 4,8964194E 00, 4,3182839E 00, DATA 99  210 104 4,3340768E 00, 4,3529763E 00, 4,3719208E 00, 4,8969084E 00, DATA 100  111 105 4,4699370E 00, 4,4290046E 00, 4,341090E 00, 4,6478478E 00, DATA 101  212 106 4,4864167E 00, 4,5056190E 00, 4,9248463E 00, 4,5440981E 00, DATA 102  213 107 4,5633718E 00, 4,5826651E 00, 4,5440981E 00, DATA 103  114 108 4,6406386E 00, 4,6599873E 00, 4,6793448E 00, 4,6213006E 00, DATA 103  115 109 4,7187763E 00, 4,5399873E 00, 4,6793448E 00, 4,6781774E 00, DATA 105  116 DATA (#ASUN 61), 18361336817  117 111 4,7855381E 00, 4,8148916E 00, 4,8342357E 00, 4,8761774E 00, DATA 105  118 112 4,8788862E 00, 4,8921880E 00, 4,9114709E 00, 4,9367328E 00, DATA 108
107
102 4.1846860E 00. 4.2031706E 00. 4.2403105E 00. DATA 98 109 103 4.2889614E 00. 4.2776648E 00. 4.2964194E 00. 4.3182239E 00. DATA 99 210 104 4.3240768E 00. 4.3529763E 00. 4.3719206E 00. 4.8969084E 00. DATA 100 111 105 4.4699370E 00. 4.4290046E 00. 4.44610902 00. 4.6672478E 00. DATA 101 212 106 4.4864167E 00. 4.5056190E 00. 4.39248463E 00. 4.344961E 00. DATA 102 213 107 4.5633718E 00. 4.5826651E 00. 4.59248463E 00. 4.544961E 00. DATA 103 114 108 4.4406386E 00. 4.6599873E 00. 4.673442E 00. 4.6987072E 00. DATA 103 115 109 4.7187763E 00. 4.7374431E 00. 4.9768116E 00. 4.8761774E 00/ DATA 105 116 DATA (RASUN 61).1836133681/ 117 111 4.295386E 00. 4.8921880E 00. 4.8342357E 00. 4.8535680E 00. DATA 106 119 DATA (ROSUN 41).18 1.364/
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111 105 4.4009370E 00: 4.4290046E 00: 4.54810903 00: 4.6672478E 00: DATA 101 212 106 4.4864187E 00: 4.5056190E 00: 4.5248463E 00: 4.5440981E 00: DATA 102 213 107 4.5633718E 00: 4.5826651E 00: 4.6019754E 00: 4.6213006E 00: DATA 103 114 108 4.6406386E 00: 4.6599873E 00: 4.6793442E 00: 4.6987072E 00: DATA 104 215 109 4.7187743E 00: 4.7374431E 00: 4.9868116E 00: 4.8761774E 00/ DATA 105 216 DATA (885UN 61): [8361368]/ 217 111 4.7855381E 08: 4.8148916E 00: 4.8342357E 00: 4.8535680E 00: DATA 107 218 112 4.8728862E 00: 4.8921880E 00: 4.9118709E 00: 4.9357828E 00/ DATA 108 219 DATA (805UN 41): 1: 3.66/
212 106 4.4864187E 00. 4.5056190E 00. 4.5248463E 00. 4.544981E 00. DATA 102 213 107 4.5633718E 00. 4.5826651E 00. 4.6019754E 00. 4.6213006E 00. DATA 103 114 108 4.6406386E 00. 4.6599873E 00. 4.6793442E 00. 4.6987072E 00. DATA 104 215 109 4.7187743E 00. 4.7374431E 00. 4.57568116E 00. 4.2761774E 00/ DATA 105 216 DATA (8ASUN 61).183613681/ 217 111 4.7855361E 08. 4.8148916E 00. 4.8342357E 00. 4.8535680E 00. DATA 107 218 112 4.8728862E 00. 4.8921880E 00. 4.9118709E 00. 4.9357828E 00/ DATA 108 219 DATA (8CSUN 41).18 1.361/
107 4,5633718E 00: 4:5826651E 00: 4:6019754E 00: 4.6213006E 00: DATA 103 114 108 4.6406386E 00: 4:6599873E 00: 4:6793442E 00: 4.6987072E 00: DATA 104 115 109 4:7187743E 00: 4:7374431E 00: 4:9568116E 00: 4:2761774E 00/ DATA 105 116 DATA (RASUN 61):[4361:368]/ 117 111 4:7953361E 00: 4:8148916E 00: 4:8342357E 00: 4.8535680E 00: DATA 107 118 112 4:6728862E 00: 4:8921880E 00: 4:9114709E 00: 4:9357828E 00/ DATA 108 119 DATA (RCSUN 41):[* 1: 36)/
114 108 4.6406386E 00, 4.6599873E 00; 4.6793442E 00, 4.6987072E 00, DATA 104 115 109 4.7187743E 00, 4.7374431E 00; 4.9568116E 00, 4.2761774E 00/ DATA 105 116 DATA (RASUN 61) [4361368]/ 117 111 4.7959381E 08, 4.8148916E 00; 4.8342357E 00, 4.8535680E 00, DATA 107 118 112 4.8728862E 00, 4.8921880E 00, 4.9114709E 00, 4.9357828E 00/ DATA 108 119 DATA (RCSUN 41) 1 1 2 361/
115 109 4.718/743E 00, 4.737443EE 00, 4.875681EE 00, 4.8761774E 00/ DATA 105 116 DATA (RASUN 41)   La361/368 / 117 111 4.7955361E 08, 4.8148916E 00, 4.8342357E 00, 4.8535680E 00, DATA 107 118 112 4.8728862E 00, 4.8921880E 00, 4.9114709E 00, 4.9357828E 00/ DATA 108 119 DATA (RCSUN 41)   1.361/
116 DATA (\$A\$UH \$1), [a361;368]/ 117 111 4,7959361E 00, 4,8148916E 00; 4,8342357E 00, 4.8535680E 00, DATA 107 118 112 4.8728862E 00, 4,8921880E 00, 4,9114709E 00, 4.9357828E 00/ DATA 108 119 DATA (\$C\$UH \$1), [* 1, 36)/
117 111 4,795351E 08, 4,8148916E 00, 4,8342357E 00, 4.8535680E 00, DATA 107 118 112 4.8728862E 00, 4,8921880E 00, 4,9114709E 00, 4.9357828E 00/ DATA 108 119 DATA (BCSUB 41) 1 = 1, 36)/
118 112 4.67288626 00, 4.8921880E 00, 4.9114709E 00, 4.9357828E 00/ DATA 108
119 DATA (BCSUM 41):10 10 361/
AA7
120 121 -4,0412066E-01, -4,0269032E-01; -4,0152566E-01, -4,0002749E-01, DATA 109
121 122 03,98396578-01, -3,96633678-01, 03,94739688-01, 08,92715468-01, DATA 110
122 123 03,9056199%001; 03,08280188501; 03,9587125%001; 03,85576601; DAYA 111 123 124 03,86676628001; 03,77893388001; 03,74987998001; 03,71961828501; DAYA 112
124 125 -3,6881636E-01, -3,6559312E-01; -8,6217369E-01, -8,5867963E-01, DATA 113
125 126 -3,58072578-01, -3,5139416E-01, -8,4752605E-01, -8.4359001E-01, DATA 114
126 127 -3,39547758-08, -8:35401018-01; -3-31151648-01, -3.26801558-01; DATA 115
127 128 -3,22352548-08, -3,17806528-01, -3,13165388-01, -3.08430958-01, DATA 116
125 129 03.08605170+03; =2.9868988601; =2.93687038+01; =2.8859847001/ DATA 117 129 DATA (805UN 61):18 37: 72;/
130 131 -2,8342618E-01, -2,7817203E-01; -2,783798E-01, -2.6742601E-01, DATA 119
133 134 02.1854323E001, 02.0946355E001, 02.0332848E-01, 01.9714017E01, DATA 122 134 135 01.9090056E-01, 01.8461173E001, 01.7827972E-01, 01.8169456E01, DATA 123
135 136 -1,68470278-91, -1,59004808-01; -1,52500118-01, -1.89380678-01, DATA 124
136 137 91,32769696001; 91,26127008901; 91,19454448001; 91,1275863891; DATA 125 137 138 91,04026986001; 97,92757168902; 99,25018258002; 98,57671048902; DATA 126
139 DATA (8CSUN 61) fl# 73,108 / DATA 129 140 141 @F.14846975002, =4,46034258002, 03,77141/08-02, 03.88188988302, DATA 129
146 1.18165748c01: 1:18744598c01: 1:25290128c01: 1:81800678601: DATA 135
149 DATA (808UN 41, 11, 14, 144, 7) 150 151 1, 86544725-31, 1, 94612758-01, 2, 80627085-01, 2, 86586045-01, DATA 139
151 152 2.12487994=01. 2.18331288=01. 2.24114288=01. 2.29838428=01. DATA 140
480 483 9 TRADELARMOS, STANBROSEMAL MALLANTERMAL A MALENDALINA PARTIES
152 153 2.33493168-01: 2.41085978-01: 2.46612368-01: 2.82670818-01: DATA 141
152 153 2,38493168+01: 2,41085978901: 2,46612368+01: 2,82670818901: DATA 141 153 154 2,87459678+03: 2,62778068901: 2,68023948+01: 2,73196068901: DATA 142
152 153 2.38493168+01: 2.41085978501: 2.46612368+01: 2.82670818501: DATA 141 153 154 2.87459078+03: 2.62778068+01: 2.68023948+01: 2.73194068+01: DATA 142 154 155 2.7829298+01: 2.83313298+01: 2.482595988+01: 2.93118238+01: DATA 143
152 153 2.38493168+01: 2.41085978+01: 2.46612368+01: 2.82670818+01: DATA 141 153 154 2.87459678+01: 2.62778068+01: 2.68023948+01: 2.73194068+01: DATA 142 154 155 2.7829298+01: 2.83313298+01: 2.402595848+01: 2.93118238+01: DATA 143 155 2.97899938+01: 3.82599158+01: 3.87214508+01: 3.81244458+01: DATA 144
152 153 2.38493168+01: 2:41085978+01: 2:46612368+01: 2:82670818+01: DATA 141 153 154 2:87459678+01: 2:62776068+01: 2:68023948+01: 2:73196068+01: DATA 142 154 155 2:78292998+01: 2:83313298+01: 2:40257588+01: 2:93118238+01: DATA 143 155 156 2:97899938+01: 3:82599158+01: 3:87214508+01: 3:81744458+01: DATA 144 156 157 3:16187558+01: 3:20542388+01: 3:84807588+01: 3:20881438+01: DATA 145
152 153 2.38493168+01: 2.41085978+01: 2.46612368+01: 2.82670818+01: DATA 141 153 154 2.87459678+01: 2.62776068+01: 2.68023948+01: 2.73194068+01: DATA 142 154 155 2.7829298+01: 2.83313298+01: 2.402595848+01: 2.93118238+01: DATA 143 155 156 2.97899938+01: 3.82599158+01: 3.87214508+01: 3.81244458+01: DATA 144 156 157 3.14187558+01: 3.20542388+01: 3.84807588+01: 3.2088458+01: DATA 145 157 158 3.38063198+01: 3.57050848+01: 3.40943128+01: 3.44738688+01: DATA 146
153 2.38493168+01. 2.41085978+01. 2.46612368+01. 2.82670818+01. DATA 141  153 154 2.87459078+01. 2.62778068+01. 2.68023948+01. 2.73194068+01. DATA 142  154 155 2.78292998+01. 2.83313298+01. 2.40255588+01. 2.93118238+01. DATA 143  155 2.97899938+01. 3.82599158+01. 3.87214508+01. 3.81244458+01. DATA 144  156 157 3.14187558+01. 3.20542388+01. 3.84807588+01. 3.20981458+01. DATA 145  157 158 3.3863198+01. 3.57050848+01. 3.40943128+01. 3.44738488+01. DATA 144  158 159 3.48436268+01. 3.52034498+01. 3.55532128+01. 3.98987948+01. DATA 147
152 153 2.38493168+01: 2.41085978+01: 2.46612368+01: 2.82670818+01: DATA 141  153 154 2.87459678+01: 2.62776068+01: 2.68023948+01: 2.73194068+01: DATA 142  154 155 2.7829298#01: 2.83313298+01: 2.40255588+01: 2.93118238+01: DATA 143  155 156 2.97899938+01: 3.82599158+01: 3.87214508+01: 3.81244458+01: DATA 144  156 157 3.14187558+01: 3.20542388+01: 3.84807588+01: 3.20+8458+01: DATA 145  157 158 3.38063198+01: 3.57050848+01: 3.40943128+01: 3.44738688+01: DATA 146

161 1		756966-01, 3.82300578-01, DATA 190
162		263008-01. 3.9135655-01. DAYA 151
164		959416-01, 3.98695326-01, DATA 152 801618-01, 4.83968308-01, DATA 153
165 1	4.05 11646 501, 4.05945786001, 4.06	755868-01, 4.87446418501, DATA 154
266 1	4.01-17116-01, 4.08467728601; 4.08	796126-01: 4.89508185601, DATA 155
167		91616E-01: 4.8664499E-01: DATA 156
168 1 169	4.08253856401, 4.0774290E=01; 4.07 TA (8CSUB 01) \$[ *1818216) /	212495501, 4.86362958501/ BATA 157 DATA 158 6
470	4.05494596=01: 4:0450786E=01: 4-03	403138-01: 4.92180906-01: DATA 159
172	4,00841608201, 3,993858182011 3,97	814038201, 3.96126908201, PATA 160
172 173	3,04325116-01, 3,92409486-01, 3,90	380648501. 3.88232228501: DATA 141
173 174	3,89987108=01: 3,8362416EGQ1: 3,81 3,7388175E=01: 3,7308631EGQ1: 3,90	191668-01; 3.78370558-01; DATA 168 189306-01; 3.67179736-01; DATA 168
175 1		547158-01, 3.54:34888-01, DATA 164
176	3,50623916-01, 3,47015516-01, 3,43	310956-01, 3.89511556-01, DATA 145
177		556838-01, 3.23390748-01; DayA 166
178 1 179	3.101361660010 3.14794396001; 3.10 74 (Bun (1);18217,252)/	36669E-01, 3.8589446E-01/ DATA 167
180 1	3.01259098-01, 2.96582026-01, 2.91	824725-01, 2.86988705-01, DATA 168 6
181 1	2.02075468-01, 2.77086558-01; 2.72	023496=01, 2.66887775=01, DATA 170
182 1	2,61680988-01, 2,56404588-01, 2,51	060188-01: 2.45649295-01: DATA 171
183		03115E-21, 2.23371846001; DATA 172
185		041967=01, 2.0015525E501, DATA 173 18642E=01, 1.7659884E501, DATA 174
186 1		362078-01: 1,31296578-01: DATA 175
187 1	1,4699028E=01, 1,3864473E=01, 1,32	26144E-01, 1.2584207E-01, DATA 176
188 1	1.19388256-01: 1:12901606-01: 1:06	383745-01, 9.98363128-02/ DATA 177
189 190 1	TA (BCSUN 11) [1:2531280]/ 9,3260936502, 8,66592525602, 8,00	DATA 178 6 329146-02, 7.33838616022 DATA 179
191		329146-02: 7:33838618002: DATA 179 139408-02: 4:65890708-02: DATA 180
192		328658-02, 1.95891788-02, DATA 181
193 1	1,2777434E-02, 5,9892663E-03, -8-03	643996-04, 47.59983516-03, DATA 182
194 1		930815-02, -5.47873285-02: DATA 183
195		373496-02. 06.19048325-02. DATA 184
196		309426=02, 98.8822615E=02, DATA 185 86059E=01, 91.8548829E=01, DATA 186
198		20982E-01, 01.4172863E-01/ DATA 187
199	TA (#CSUM \$1),1+269,324)/	DATA 188 6
		05824E-01, 01.6748776E001, DATA 189
201 2		283205-01, -1.92477725-01: DATA 190 764335-01, -2.16774965-01: DATA 191
203 2	-2.22690145-01, -2.2856801E-01, -2.84	386816-01, -2.40144435-01, DATA 192
204 2	62,48838998601, -2,5146846E-01; -R.57	030P0E-01, a2,6202426Ea01; DATA 193
205 2	-2,6794662E-01, -2,7329592E-01, -2,78	570165-01, -2.83767315-01, DATA 194
206 2	-2, 48885425-01, -2, 93922445-01; -2, 98	876368-01, 58,8374518501, DATA 195
207 2	<u>-3.0852686E=01, -3.1321946E±01; -8.137</u> -3.2474279E=01, -3.3105921E±01; -3.85	820965-01, 08.22329405-01, DATA 196 276755-01, 08.29393665-01/ DATA 197
209	TA (BCSUN 61), 14325, 3601/	DATA 198 6
210 2	-3,4340819E-01, -3,4731865E-01, -8-91	123366-01, -3.5482678#-01, DATA 199
211 212	-3,58409265-01, -3.61887255-01; -3.63 -3,71642855-01, -3,74662865-01; -3,77	253225-01, 03.68805518-01, DAYA 200
213		564966-01, 06.60347318601: DAYA 201 962398-01, 03.90292365601: DAYA 202
	-3,9241607E-01, -3,9445234E-01, -5,96	300146-01, cs.98138368601, DAYA 203
215 2	-3,9976597E-01, -4,0130210Ec01, -4,02	685818-01, 04.8393832E-01, DATA 204
216		88119E-01, 54.8759197#501, DATA 205
217 2 218 2	64,0316658601, 94.08604748601, 64.08	906225-01, 64.89070856501, DATA 206 743446-01, 04.88360595601/ DATA 207
219	TA (BCSUN 61),1+361/368,/	DATA 208 6
550 5	-4.0784105E-01, -4.0718501E-01, -4.06	39277E-01, -4.9546466E-01, DATA 209
257 5	-4.0440109E-01, -4.0320259E-61, -4-01	869718-01, -4.8040315E-01/ DATA 210
\$23 \$23	TA (25UN 41) fl	91410E=01, 9.8390690EG01, DATA 211
324 2	9.83906135-01. 9.83911675-01: 9.63	91410=01, 9.8390890E=01, DATA 211 92344E=01, 9.8394127E=01, DATA 212
325 3	9.81944984001, 9.83994346001, 9.84	029216-01, 9.84069305-01, DATA 213
326 3	9,84114338-01, 9,84154046-01; 9,84	218168-01, 9.84276428-01, DATA 214
327	9.84338638-01, 9.84404865-01, 9-84	474098=01, 9.84846775501; DAYA 219
228 229		786528-01, 9.84874086601; DAYA 216 163586601, 9.85270126601; DAYA 217
229 2	9.85382026-01, 9.85499446-01, 9:85	522545-01, 9.35751494501, DAYA 218
231 2	9.69865225001, 9.8602675E001, 9.86	172826-01, 9.86324536001/ DATA 219
232	TA (BSUN 61) 11 37, 721/	BATA 220 6
233 1	9.84481638001, 9.86643938-01; 9:86	811236=01, 9.86983295=01, DATA 221

	3752496E01: 9,8771305E01: DAYA 222 8829498E01: 9,8849866E01: DAYA 223
	09102745-01, 9.8930985-01, DATA 223
237 245 9.8951943E-01, 9.8973195E-01, 9.	9947216-01, 9.9016876501; DATA 225
	P084249Em01: 9.9131875Em01: DATA 226
	7204750E501: 9.92308045501: DATA 227 307640E501: 9.93344085501: DATA 228
	73075408501: 9.9334408501: DATA 228
242 DATA (85UN 11)+15 73,1051/	DATA 230 6
A A.A. A.A	75257795-01, P.95534715-01, DATA 231
PIL STEEN ST	7636423E=01, 9.9664029E=01, DATA 232 7746983E=01, 9.9774750E=01, DATA 233
	8586648-01, 9.98868935-01, DATA 234
247 255 9,99152636-01, 9,99437782-01, 9,	9972440E-01, 1.0000524E 00, DATA 235
248 256 1,0003018E 00, 1:0005924E 00; 1:	000004416 00: 1,80117666 00: DATA 236
249 257 1.00146988 00, 1.00176328 00, 1.	00205696 00: 1.00235015 00: DATA 237 00323565 00: 1.60391145 00: DATA 236
251 259 1.0037970£ 00, 1.6040602£ 00, 1.6	0436048 00, 1.00468608 00/ DATA 239
252 DATA (BSUN 61) . I = 109 144 1/	DATA 240 6
	0054560E 00, 1.0057242E 00, DATA 241
	00651525 00: 1.8067601F 00: DATA 242
256 264 1,0080730E 00, 1,0083286E 00, 1.	10858325 00, 1.4088367E 00, DATA 244
257 265 1,0090888E 00, 1,0093394E 00, 1e	1095883E 00, 1.8098350E 00, DATA 245
	1.0107935E 00, DATA 246
	11147198 00. 1.0116887E 00. DATA 247
261 269 1.0127040# 00, 1.0128943# 00; 100	130808E 00, 1.0132637E 00/ DATA 249
862 DATA (RSUN 11) 6 1 81 45 [180]/	DATA 250 6
	137928E 00: 1.8139631E 00: DATA 251
265 273 1.01477358 (0. 1.01492738 00. 1.1	130781E 00, 1.6152857E 00, DATA 253
266 274 1,01536978 00- 1,01550978 00: 1,0	11554558 00, 1.01577688 00, DATA 254
	161391E 00: 1.8162485E 00: DATA 255
268 276 1.0163520E 00, 1.01644955 00; 1.0 269 277 1.01670685 00, 1.0167814E 00; 1.0	1684116 00: 1.8166268E 00: DATA 256
270 278 1,0169746E 00, 1,0170296E 00; 1;	1708028 00, 1.0171266E QD, DATA 258
371 279 1.0171691E 00, 1.0172079E 00, 1.0	1172431E 00. 1.8172748E 00/ GATA 259
273 DATA (RSUN 11) 10181216;/ 273 281 1.0173031E 00, 1.0173280E 00, 1.0	DATA 260 6
	173496E 00, 1.8173676E 00, DATA 261
275 283 1,0173952E 00, 1,0173860E 00, 1+0	1173711E 00, 1.0173503E 00, DATA 263
276 284 1,0173235E 00, 1,01729065 00, 1,0	11725156 00. 1.0172062E 00. DATA 264
277 285 1.0171550E 00, 1.0170980E 00, 1.00 270 286 1.0168938E 00, 1.0168155E 00, 1.00	01703538 00. 1.8169671E 00. DAYA 265
	11673258 00: 1.8166451E 00: DATA 266
280 288 1,01615078 00, 1,01604208 00, 1,0	1159305E 00, 1.8158460E 00, DATA 268
281 289 1.01569648 08, 1.01557758 00, 140	1549328 00: 1.8153253E 00/ BATA 269
283 DATA (8SUN \$1):10217;252)/ 283 291 1:01519336 00, 1:01505696 00; 1:01505696 00;	DATA 270 6
	143013E QO. 1.9141345E QO. DATA 272
285 293 1.013 0 626 00, 1.013 7856 00, 1.0	1136036E 00, 1.0134169E 00, DATA 273
286 294 1,0132255E 00, 1,0130299E 00, 1,0 287 295 1,0124197E 00, 1,0122096E 00, 1,0	11283028 00, 1.81262678 00, DAYA 274
	01199665 00, 1.81178115 00, DATA 275 01112285 00, 1.81090015 00, DATA 276
269 297 1.01067588 00, 1.01044998 00, 1.0	1102225E 00. 1.8099933E 00. DATA 277
290 298 1,0097618# 00, 1,8095279# 00, 1,	1092912# 00, 1.6090516# 00, DATA 278
291 299 1.0088089E 00, 1.0085630E 00, 1.0	0083136E 00, 1.8086607E 00/ BATA 279
293 301 1.00780448 00, 1.6075447E 00, 1.6	072817E 00, 1.9070155E 00, DATA 281
294 302 1.0067464E 00, 1.0064744E 00, 1.1	061998E 00: 1.0059230E 00: DATA 282
295 303 1.0056441E 00, 1.0053637E 00; 1.0	050817E 00. 1.9047989E 00. DATA 283
	0394656 00, 1.80366546 00, DATA 284 0282016 00, 1.80258966 00, DATA 283
298 306 1.00223966 00, 1.00197966 00, 1.0	0169958 00, 1.80141918 00, DATA 286
299 307 1,0,113828 00, 1,00085668 00, 1,0	1005740E 00 1.8002905E 00 DATA 257
800 308 1,0000060E 00, 9,9972054E601, 9,9	9434028-01, 9.99146578-01, DATA 288
309 9.988930E-01, 9.9858934E301, 9.9	P827984E=01, 9.9799006E601/ DAYA 289 DATA 290 6
303 311 9.9770026E-01, 9.9741074E-01; 9:	7121666601, 9.96833566601, DATA 291
804 312 9.96846325-01. 9.9626183Ee01. 9e	997901 011 9.9569864 001 DATA 292
805 313 9.99421018-01, 9.95146338601, 9.9 806 314 9.96341948-01, 9.96079738-01, 9.9	74875138-01, 9.94607028-01, DATA 293 73820258-01, 9.93503268-01, DATA 294
806 314 9.94341948-01, 9.9407973E001, 93	AARARCEANT LILADANGEDAMENTI NUIN SAA

07	315	9:9330857E-01.	9.930559860014	9,928,5186-01.	9.9255612E601, DATA 295	
508	316	9.98308696-01,	0.0506585E001	9,91818418-01.	9.91575468501, DAYA 296	
109	817	9,91334006=01,	9.91094085001	9,70855728-01,	9.90619158-01: DATA 297	,
110	318 319	9.90384538-01.	9.901520669014	9189921915-01,	9.89694515001: DATA 298	1
111	319	9.8947021#=01,	9,89249426001;	9189032434-01,	9.48819668601/ DATA 299	
11.2		TA CRSUN 615614	325,360,/		Pata 300	
12	331	9.88611466-01.	9,8840816E-01;	9.88210256-01,	9.88017578001, DATA 301	
14	355	9.87830126-01.	9.87647845=010	9,87470725-01,		
					9.8729855501: DATA 308	
15	\$53	TAL PAPERTAL AND	9.86968076-01.	948680 9558-011	9.8669443Ecol. DATA 3CT	
16	324	9,86503516-01,	9,8635630Ec01,	9-8621263E-01.	9.86078418901: PATA 304	1
117	825	9.85935556-01,	9,8530196E-01.	9.85671615-01.	9.4554455EGO1, DAYA 309	,
18	326	9.85420664-03,	9,85300676-01	9-85183966-01,	9.8507113E001: DATA 306	•
19	827	9.84962485-01,	9.84856296401.	9.84758825-01.	9.84464518501, DATA 307	
1 R O	359	9.84575706-01,	9.84492726001	9,84416085-01,	9.8434570E-01, DATA 308	
1/1	329	9.84281716-01.	9.84224125601	9.84173196-01,	9.8412833E-01/ DATA 309	
22	DAT		361,360;/	5104714745-471		
	331		0 94051845-01	0 34020445-04	DATA 310	
123			9.8405686Ee91.	9-3402964E-01.	9.84007815-01. DATA 311	
24	295	9.83991176-01,	9.83979456-01,	9.83972446-01,	9.83969918001/ DATA 312	2
825	DAT				DATA 312	
826	341	1,20340195 00,	1.4450900E 00;	1,0859133E 00.	1. \$226973E 00. DATA 313	3
127	342	2,19266988 30,	2.3741679E 00,	2,58691146 03,	2.7918867E 00: DATA 314	
25	343	2.99103926 00,	3.1869549E 00.	3.88261045 00.	3.5811913E QQ. DAYA 319	
129	844	3,79591928 00.	3.9998077E 00.	4.2252609E 00.	4.4634818E QD. DATA 316	
830	345	4,713-0018 00.				
			4:9733418E 00.	5,23734628 00.	5.5007286E OU. DATA 317	
331	346	5,75863348 00.	6,0094737E 00.	6,29302338 00,	2.8764638E=01, DATA 318	
32	347	4,48043028=01	6.75406255=01:	9+09575698=01:	1.1454140E 00. PATA 319	
33	348	1,3825647E 00	1,6195010E 00.	1.8539283E 00.	2.0834303E 00: DATA 320	)
834	349	2.30614398 00,	2,5211913E 00;	2.7287944E 00.	2.9361423E 00/ LATA 321	Į.
35	DAT	TA (RAMOCNEI) #1	37, 721/		GATA 322	
36	351	3,1271577E 00.	3.3222669E 00;	3.51821B1E 00,	3.7179327E 00. DATA 323	
337	352	3,9243406E 00,	4,1401308E 00;	4,3673569E 00,	4.6065924E 00, DATA 324	
338	853	4.85787998 00,	5.1175082E 00.	5.8814833E 00.	5.6451999E QQ, DATA 325	
339	354	5,90506658 00.		1.84668448-01,		
	855	6 4 4 5 5 4 4 7 5 - 0 6	6:1592894E 004	1.84668445-01.	3.6876634E-01, DATA 326	
840		6,10054476-01,	8,4999383E=01,	1.0893730E 00,	1.8280631E 00. DATA 327	
641	356	1.56504308 00.	1,7986957E 00.	2. 272887E 00.	2.6645822E 00. DATA 328	
842	357	2.68283018 00.	2,8751641E 00,	3+4731470E 00.	3.2687749E QQ, DATA 329	,
843	358	3,4643271E OC,	3,6622390E 00,	3.86497525 00,	4.9748596E CO, DATA 330	
544	379	1.2938265E 00.	4.5230756E 00;	4.96564356 00'	5.9113927E 00/ DATA 331	
845	DA				DATA 332	•
846	361	5,26661336 00,	5,5350941E 00,	5.7837619E 00.	6.8405191E 00, DATA 333	
147	362	1.13785586-02,	2,6299560Ec01,	5.13006636-01.		
148	863	1.01049888 00,	1.2573450E 00	1,50116628 00.	1.7400872E 00. DATA 335	
149	364	1,97228166 00.	2,19671688 00,	2-4130907E 00.	2.6219781E 00. DATA 336	
50	365	2.8246453E CO,	3,0228475E 00;	3,21864478 00,	3.4142954E 00. DATA 337	,
51	366	3,6119387E 00.	3,8138749E 00.	4402201798 00.	4.2378944E QQ. DATA 338	3
352	367	4,4623585E CO.	4,69535618 00.	4,9358176E 00.	3.1318092E 00. DATA 339	
553	\$65	5.4309906E 00,	5,6812506E 00.	5.7312620E 00,	6.4807835E QO. DATA 340	
154	369	1.47031695-01.	3,97568945-01,	644997207E-01.	9.9425859E=01/ DATA 341	
155	DAS	TA (RAMOCNEL) . I	100.144.7	2441140.44071	A. B. K. C. A. Oft. Duly 241	
155		IN TREADS OF VE		4 444444	DATA 348	
56	371	1.18924198 00,	1,41295888 00,	1.00119928 00,	1.9023893E 00, DATA 343	
857	372	2,13408748 00,	2,3558420E 90	2,36823478 00:	2.8728323E 00. DATA 344	
558	373	2,97179238 00,	3.1679802E 00.	3,86277115 00,	3.5599049E 00, DATA 345	,
859	374	3,76135196 00,	3,96914455 007	4428475015 00,	4.4088093E 00. DATA 346	
50	875	4.64090638 00.	4,8795294E 00;	5.1223465E 00.	5.8667982E 00. DATA 347	
61	376	5.6106137E 00.	5,8533567E 00,	6.0946100E 00.	5.2607036E002, DATA 348	
62	377	2,95523135-01,	5,4194961E001	7.92935165-01.	1.8481476E QD. DATA 349	
143	3/8	1 30550705 00	1 864 84 700		2 05 05 04 001 001 001 001	
63		1,30552306 00.	1.8615172E 00.	1.81202138 00.	2.8535591E QO. DATA 350	
864	379	2.28416005 00. YA (RAMOCN&I) (I 3,14181386 00,	2,5036047E 00;	2.71313016 00,	2.91498015 00/ DATA 351	
65	DA'	TA CHAMOGNATIAL	149,1001/		DATA 352	2 (
000	351	3,19181386 00,	3,3066947E 00,	3,50258828 00,	5.7023838E 00, DATA 353	5
857	302	3,9085337E 00.	4,1230927E 00;	458470728E 00,	4.5802388# 00. DATA 354	
568	383	4,8809020€ 00,	5,06615328 00	5.3125796E 00.	5.5972351E 00. DATA 355	
69	384	5,79843136 00.	6.0360481E 00	6.27135966 00.	2.23375275001, DATA 396	
870	885	4 400784/4-01	7.03140315-04		1. 20 TRYARE ON DATA	
		4.60978446-01,	7:03140716-01;	9.3095699E=01.	1.2038365E OU. DATA 357	
171	386	1,4592506E 00.	1:7131668E 00.	109611655E 00.	2.1997383E 00. DATA 356	
572	367	2.42712148 00.	2,6434088E 00	2,85016388 00,	3.8498903E 00: DATA 359	,
873	268	3.24559298 00,	3,44048136 00;	3.4377759E GO:	3.8405335E 00. DATA 360	
574	289	4.05141208 00,	4.2723144E QO.	4.30392466 00.	4.7452793E 00/ DATA 361	
675	DA	TA (RAMOGNEI) . I	181,216./		DATA 362	
875 876	391	4.99367308 09.	\$ 24517696 00.	5,49572628 00.		
	392	5 04343736 00	4.22025075	4. 90884645	5.8423014E 00. DATA 363	
877	976	5.98363736 00,	6.2202597E GO.	1.90854646-01,	4.8436910E901, DATA 364	
377		A AKRONOMOM AA				
977 878 879	393	6.40228706-01: 1,6254857E 00,	1.0734650E 00;	1.1255462E 00, 2.3149610E 00,	1.3749198E 00, DATA 365 2.8471918E 00, DATA 365	

580 181		2,5688750E		2,7806062E 00: 3,5721588E 00;	2.9840749E 00, 367711184E 00,	3.1618113E 00: DATA 367 3.9764816E 00: DATA 368
882	397	4.19142796		7.4170838E 001	4.05400768 00.	4.9007670E QQ2 DATA 369
883	398	5.19415946		5,4099034E 00.	5, 6639146# 00,	5.9134279E 00: DAYA 370
884	399	5.1575569		1,13940205-01,	3450895586-01,	5.8759948EG01/ DATA 371
885		A CRAMOGNA		1712521/	***************************************	DATA 372
886		8,26148246		1,06776975 00,	1. \$12365BE 00,	1.5583809E 00, DATA 373
887	402	1.80294928	00.	2:0429397E 00.	2,27556496 00,	2.4992103E QO. DATA 374
888	403	2,71363486	00,	2,9198178E 00;	3.1196315E 00,	3.8159137E 00. DATA 375
889	404	3.51021795	00,	3,7066351E 00.	3.9076419E 00,	4.1159112E 00: DATA 376
890	405	4.34362798	00.	4,5620884E QO.	4,80129448 00.	5.8494711E 00: DATA 377
391	406	5.3036381E	00,	3,5599682E 00	5.81508088 00.	6.8668983E 00. DATA 378
102	407	3.17677125		2,7691761E=01.	5,20730215-01,	7.64784948601: DATA 379
893	408	1,01005006	00,	1.2564422E 00.	1,5026869# 00.	1.7465670E 00. DATA 380
894	409	1.98551765	00.	2.21733678 00:	2,64072315 00.	2.6554803E 00/ DATA 381
895	DAT	A CRAMOON		53,2881/		DATA 382
596	411	2.84242156		3,0631237E 00,	3,25966266 00,	3.6543986E 00. DATA 383
897	412	3,64981836		3,8484063E 00;	4,05250528 00,	4.2641256E 00, DATA 384
998	413	4,48468505	00,	4,7147037E 00.	4,95356378 00,	5.1995004E 00, DATA 385
99	414	5,44996616	00,	5.7023214E 00.	5,9545786E 00,	6.20565856 OO: DATA 386
600	415	1,73205038	m021	4.23919.3E-01;	6,75813186-01,	9.2929073E-01. DATA 367
601	416	1,1836747		1.4370926E 00.	1,08683998 00,	1.9301066E 00. DATA 388
402	417	2,1447395		2:3897145E 00:	2,6052088E 00.	2.8123851E QO: DATA 389
403	418	3.01307425		3,2094842E 00.	3,40398586 00,	3.5989624E 00, DATA 390
404	419	3.79669146	.00	3.99922026 00.	4.2082100 00,	4.4247431E 00/ DATA 391
605	PAT	A LRAMDON	171145	BA12567	********	DATA 398
406	421	4,64912686		4,80079088 00;	5.1183435E 00.	5.3599213E_00: DATA 393
407	422	5,6037091		5.8484625E 00.	6,09388895 00,	5.8439789E602. DATA 394
408	423	3.06759816		5,5999369E-01;	8,17790928-01,	1.8794193E 00. DATA 395
409	424	1,3624215		1.60295215 00,	1+85679648 00.	2.1005902E 00. DATA 396
110	425	2,34261426		2.55290418 001	2.16287356 001	2.9647924E 00. DATA 397
111	426	3,16134716		3,8553409E 00,	3,5495095E 00,	3,7463849E 00, DATA 398
112	427	3,94815636		4.1564926E 001	4.37232765 00.	4.595663E 00. DATA 399
13	428	4,8254936		5.9599897E 00:	5-29695256 00.	5.5344483E 00: DATA 400
114	429	5.7713776E		6.9077844E QO:	6.24483925 00,	2.8135789E501/ DATA 401
415	431	A CRAMOONS	201		0 54480535-04	1 224 9044 F 00 PATA 402
416	432	4.4602764	00.	6.9758309E001;	9.5668053E=01,	1.2219066E 00. DATA 403
617 618	433	2,48474706	00.	1:7541022£ 00:	2.01030898 00.	2.2543340E 00. DATA 404
119	434	3.30294418		3.4964454E 00;	2.9091203E 00.	3.1082556E 00: DATA 405 3.8919709E 00: DATA 406
420	435	4.0987526		4.3138880E 00;	3-9718371E 00:	
121	436	5.00519746	00.	5.2439252E 00,	5.48209298 00.	4.7687550E 00: DATA 407 5.7177959E 00: DATA 408
522	437	5.9505491		6,18132458 00,	1.2907021=-01,	3.6297045Ee01, DATA 409
23	438	6.02725918	-01.	8.5053887E-01.	1,10703486 00.	1.3704709E 00. DATA 410
124	439	1.68657758	00.	1.8995069E 00;	2,15364396 00.	2.3952682E 00/ DATA 411
125		A (RAMDONA	11.143	61.3681/	P4 A - 4 - 5 A A 1	DATA 412
126	441	2.62320696	00.	2,8384908E 00;	3,0435872E 00,	3.2416928E 00, DATA 413
127	442	3.43626125	00.	3.6307298E 00.		
128		A (BCMOON	11010	11 361/	A4-24-1-44 AA1	DATA 414
129	451	2:95614538	.01.	3,2380723E-01,	3,3422747E-01,	3,27041216=01, DATA 415
436	452	3.03663418	=01.	2,46394825-01,		1.6111394E-01, DATA 416
31	453	9,8418921	-02,	3.2183734E=02,	-8.5458678E-02.	68.02391415001, DATA 417
132	454 0	1.64309996	-01, e	2.24521095-01;	.2.7381255E-01,	-3.1050301E-01, DATA 418
433	455 6	3.30799846		8.3152093E=01.	68.1101553E-01,	62,6986930E501, DATA 419
634	456	2.10983306	-01, -	1,3898027E-01:	.8.9290614€-02,	2.2654420E502, DATA 420
135	457	1.01904915	-01,	1,7417131E-01;		2.63971285001, DATA 421
136	458	3,16449286	.01.	3,3195697E=01;		3.1233285E001, DATA 122
437	459	2.7981742		2:35136746601	1,80960316=01,	1.19973265001/ DATA 423
38	DAT	A (BCMOON)	17.18	37, 721/		DATA 424
139	461	5,47169528	002, 0	1.2452921E=62,	±7.9310874€ ±02,	#4.4363804E-01, DATA 425
440	462 -	2,0306135	5011 ª	2,5489629Ec01,	C2.96058858-61,	95.23145245001, DATA 426
141	463	3,32790986	001, .	3,2234980Ec01	-2090743146-01	GR. 49120515001, DATA 427
142	464 =	1,70963026	=0\$, e	9.15479456-02.	-7,0147119E-03,	7.65581045002, DATA 428
443	465	1,53781276	-01,	2,2033776Ec01.	2.93000938-01,	3.4967038E=01: DATA 429
444	466	3.2925906		3,31698146001		2.4789062EG01, DATA 430
445	467	1,94377446		1,3718277E=01;		
146						-2.4096094E-01: DATA 482
447	469 4	2.84915321	801, ~	5.1625246E=01.	-8.32093346=01.	-8.29731425001/ DATA 433
448	DAT	A LECHOONS	12018	75,108)/		DATA 434
449	471 9	3,07581036	-01, -	2,6538850E=01,	-2,0488218E-01,	61.29815016601, DATA 435
450	472 9	4,5603610		4.1388646E502	1.2472088#>01.	1.986668gEag1: DATA 436
451	473	2,58766750	901.	3,0209119E=01.	3.27232315-01,	3.8423890E=01. DATA 437
452	474	3.24084276		2,986068260012		2.2070843E-01. DATA 430

```
453
                 475
                         1,53111916-08,
                                                8.9656836E-02.
                                                                       2427347186-02, -4.52498105-02, DATA 439
654
                 476
                                               -1.7451660E-014
                                                                      -2.806R542E-01, -2.8743820E-01,
                                                                                                                    DATA
                                               -3,3225226E=01;
455
                 477
                            12193346-01,
                                                                      -8.3535283E-01. -3.1994708E-01.
                                                                                                                    DATA
                        -2.8556094E-01. -2.8308986E-01.
456
                 478
                                                                      -1.54941388-01, -8.51235638602, DATA
                                                                                                                          442
                          1.16714168403,
457
                                                1,7785264Eq82;
                                                                       1.68391938=01, 2.879155 E-01/ DATA
                                                                                                                          443
458
                     DATA (SCHOON 1) 101891144)/
2,89784605-01, 3,23420918-01.
                                                                       3-87358786-01,
2-87567346-01,
                 481
                                                                                               3, 8248189E601,
                                                                                                                    DATA 445
                        3,10808201008,
1,08699335061,
-1,59687485001,
-3,32506925001,
                                                 2.7492812Ec01,
4.1944621Ec02,
                                                                                             1.2134364E-01,
-0.4693611E-02,
                 482
460
                                                                                                                    DATA 446
                                                                      -2.44398826-02.
                 483
661
                                               -2.1888333E-01.
                                                                      -2.0936538E-01,
                 484
                                                                                             -8.8816740E-01;
663
                                                                                                                    DATA 449
464
                 466
                        -2,33765798-01,
                                                                      -1 -1706825E-01.
                                                                                             54.4420894E=02.
                                                                                                                    DATA 450
                                                 1.3459515E601.
3.3736300E001.
2.4785261E001.
                                                                                              2.70719868501:
3.2449101E501:
1.8148082E501/
                            ,13453975-02,
                 487
                                                                        2.09506598=01,
3.60302688=01,
465
                            16099556-01.
                 483
466
467
                 489
                          2.9263049E-01.
                                                                        1.93217236-01.
                                                                                                                    DATA 453
                       ATA (DCMOON41) 11.145.160)/
6.50830176-02, -3,7364405E=03;
468
                                                                                                                     DATA 454
                 491
                                                                      ar, 27786116-02,
                                                                                                                    DATA 455
                                                                                             £1.3969418E601,
                                               -2.5637502E=014
                                                                      -3-0003178E-01, -8.2968230E-01, -8.3240272E-01, -2.6978572E-01,
470
                 492
                        -2,0187122E-01,
                                                                                                                    DATA 456
471
                 493
                           .42603338-01,
                                               -3,3700110E001;
                                                                                                                    DATA 457
472
                                               -1.4056519E=01.
1.8232220E=01.
3.4352918E=01.
                                                                      2048383846-01,
3035475686-01,
                 494
                           .1142205E-01.
                                                                                              2.2388034E902;
2.9948363E901;
3.8956822E901;
                                                                                                                    DATA 458
                          1.05237866-01,
                 495
                                                                                                                    DATA 459
                           31662235-01.
                 496
474
                                                                                                                    DATA
                                                                                                                           160
                                                 2.1677009E-01, 1.5649197E-01,
4.7322544E-02, 64.1536210E-01,
2.8589405E-01, 63.2144596E-01,
                                                                                             9.8791336E=02:
-1.7965389E=01:
475
                 497
                                                                                                                    DATA
                        2.2119292E-02,
-2.3751988E-01,
                 448
476
                                               = 6
                                                                                                                    DATA 462
477
                 499
                                               -2.8389405E=01,
                                                                                             -3.4094651E-01/
                                                                                                                    DATA 463
                        TA (#CMOON(|), | *181/216)/

-3.4185436E-01, -3.2295128E-01,
478
                                                                                                                     DATA 464
                                                                      22.8474936E-01, -2.2947155E-01,
                                                                                                                    DATA 465
                         -1.6065252E-01.
480
                 502
                                               -8.2598754Eu02.
                                                                        5,49863266-05,
                                                                                               8.2613407Ee02:
                                                                                                                    DATA 466
                          1.6041755E-01,
                                                                        2.8408507E=01.
3.2190990E=01.
1.3587306E=01.
681
                 503
                                                 2,2896150E001,
                                                                                               3.2235179E=01.
                                                                                                                    DATA 467
                          3,41537946-01.
482
                 504
                                                 3,4103238Ec01,
                                                                                               2.46596496=01:
                                                                                                                    DATA 468
                           30279416-01.
483
                 505
                                                 1.80322656-01;
                                                                                               4.7700016E502. DATA 469
484
                 506
                        -2,17791616-02,
-2,67826378-01,
                                               -9.03601786-02.
-3.08321456-01.
                                                                      -1.95689205m01.
                                                                                             -8.1591368F-01, DAYA 470
                 507
                                                                      08-34702316-01: 03.63285035001: DATA 471
02-49779876-01: -1.8333516E-01: DATA 472
485
                        -3.3206964E-01.
                 508
                                               -3.0044303Ec01.
486
                        01.0870293Ec01.
TA (BCMOON(1)11.
2.12945E5Ec01.
3.4257494Ec01.
                                               -2.2123013E=02;
217:252,/
2.7112290E=01;
487
                  509
                                                                        6.21011296-02.
                                                                                              1.4196487E=01/ DATA 473
488
                                                                                                                     DATA 474
                                                                        3,1333954E-Q1,
2,9918578E-Q1,
                 511
                                                                                               3.3744970E001,
                                                                                                                    DATA 475
                                                                                               2.55132216001:
8.37177906604:
490
                                                 3,29227838601,
                                                                                                                    DAVA 476
                            .0019973E-01,
                 313
                                                 1.3757067Ec01;
                                                                        7,0223604E-02,
491
                                                                                                                    DATA 477
                 514
515
                                                                      -1:9611601E-01:
-3:4186972E-01:
-2:1125169E-01:
1:2042027E-01:
492
                            81803725-02.
                                               91:3457957E-01:
                                                                                             -2.5039265E-01:
                                                                                                                    DATA 478
                            .9474562E-01,
                                               -3.2624239Eq01.
                                                                                             -3.3897441E=01,
-1.8563195E=01;
493
                                                                                                                           479
                 516
517
                            . $147354E-02,
495
                                                 3.61898596-02
                                                                                                                    DATA 481
                                                                                               1.9617836E=01:
495
                 518
                            ,59032016-01,
                                                 3.05679415-01:
                                                                        3.3407047E-01.
                                                                                               3.4346638E=01,
                                                                                                                    DATA 482
                                               3.0847697EG01,
253,288,/
8.9206168EG02,
21.8029270EG01,
                            .3439690E-01,
497
                                                                        2,68105086-01,
                                                                                               2.1612164E=01/
                                                                                                                    DATA 483
                        TA (SCMOON | 1 ) | 1
1 | 5851277 | 0 0 0 0
-1 | 1716705 | 0 0 0
498
                                                                                                                    DATA 484
                                                                                             -4.9633092E=02.
01
                 522
                        63.19127738-01,
-2.94773798-01,
6.34467848-05,
                 523
                                                                                             -8.2924945E-014
                                               -$ . 4003750E=01
                                                                      1.91794496-01.
                                               6,4128503 GOZ,
902
                                                                                             68.8886216-02: DATA 488
 03
                  525
                                                                                               2.4230092F=01, DATA 489
                                                                      3.4548419E=01,
2.8085585E=01,
-3.2564709E=02,
-2.9559241E=01,
                 526
527
                                                 3.3094046E-01;
2.8051397E-01;
                                                                                               3.4056180E-01,
1.7198028E-01,
 904
                            9624553E-01.
                                                                                                                    DATA 490
                            1804396Ec01,
905
                                                                                                                    DATA
                                                                                             e1.8148819Ec01,
506
                 528
                          1,0669181E-01,
                                                 3.76580896-02.
                                                                                                                    DATA 492
907
                                               -2.2550594E-01,
                                                                                             -3.1436528E-01/
                                                                                                                    DATA 493
                       ATA (BCMOON(1)) 1 6289,324)/
63.39389028-01, 63.4848391E-01, 63.3996460E-01, 63.1292672E-01, DATA 495
908
909
                 531
                                               -R.0515908E=01;
                                                                      01.2869338E-01,
310
511
                 532
                         -2.67517376-01,
                                                                                             64.2416071E=02, DATA 496
                          4,8061711E002,
3,2387679E-01,
2,9866086E-03,
                                                 1.3621482E-01;
3.4680948E-01;
2.4798173E-01;
                                                                                               2.7932552E=01:
                 533
                                                                        2.15309035-01,
                                                                                                                    DATA 497
                 534
512
513
                                                                        3.4826648E=01,
1.041548E=01,
                                                                                               3.8021015E001.
1.2589772E01.
                                                                                                                    DATA 499
                 536
537
                                                                      08.38312916-02, 01.5108170E001, 03.0914647E-01, 03.8839020E-01, 03.8839020E-01, 03.8839020E-01,
                                               -1.3638226E-02;
-2.6643229E-01;
                        5,70652906-02,
-2,12839166-01,
514
515
                            .51938306-01.
                                               -3,4820431E001.
                                                                                             7.1644436E03/
 916
                 538
                                                                                                                    DATA 502
                 539
                         -2.3114667E-01,
                                                                      -8.0280327E-02,
                                                 1.6114403Ec01.
                                                                                                                    DATA 503
718
719
                                                                                                                     DATA
                                                                        2,52492826-01,
                                                                                               3.98096016-01,
                                                                                                                           505
                            .4247005E-01.
                                                                                               3.1391696Ea01,
8.9387096Ea02,
$20
$21
                 542
                                                                        3.4346442E-01,
                                                                                                                    DATA 506
                 543
                                                                        1.49152276-01,
                 544
                            28736305-03,
                                               66.1861670EGQ2,
                                                                      a1,3030854E-01,
                                                                                             -1.95167178-01: DATA 508
922
923
                        -2.5237255E-01.
-3.5358541E-01.
-1.8377669E-01.
                                                                      08.8366511E=01, 03.9235956E=01,
08.0125069E=01, 02.4953606E=01,
02.3548424E=02, 6.2759209E=02,
                 545
                                                  ,9944769Es01
                                                                                                                    DATA 509
924
925
                 546
                                               -8.36438942-01;
-1.0718173E-01;
                                                                                             6.2755209E002, DATA 510
                 547
326
                          1.46764166001,
                                                                                               3.8027415E501, DATA 512
                                                 2.2300011E001;
                                                                       2.85841162-01.
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	3.52890638e01, 3.5268826E01, A (ECMOON(1)(1+3611368)/	3,3118914E-01,	2.91776838601/	
	2,39460116-01. 1,759889E-01;	1:07380538-01,	3.5622458E502,	DATA 514 6
930 952 -	3.61974196-C2, -1.0646469E501,	-1. \$279997E-01.	-2.4285930E-01/	DATA 516
	A (RHOON (1) (18 1: 36)/			DATA 516 6
	5,9857723E 01, 6,0363628E 01,	6,0909292E 01,	6.1475633E 01,	DATA 517
933 562 934 563	0,20342868 01, 6,2549537E 01,	6,29816988 01,	6.3291R79E 01.	DATA 518
935 564	6.3443316E 01. 6.3411363E 01. 6.2141516E 01. 6.1382844E 01.	6+8180915E 01.	5.9634135E 01:	DATA 519 DATA 520
936 565	5.8178450E 01, 5.8030316E 01,	5.74518798 01,	5.1086768E 01.	DATA 521
937 566	5.6953572E 01. 5.7044270E 01.	5,73282516 01,	5.2760563E 01,	DATA 522
738 567	5.8291661E 01. 5.8875920E 01.	5.9477169E 01.	6.90708735 014	DATA 523
539 568 540 569	6,06429825 01. 6,11870415 01.	6,2700007E 01.	6.2178846E 011	DATA 524
	6:2614312E 01: 6:2991051E 017 A (RMOON 61):16 37: 72:/	6,83012768 01,	6.35090216 01/	
942 571	6,33920956 01, 6,35254456 01,	6,3288980E 01,	6,2871441E 01,	DATA 528 6
543 578	6,22760556 01. 6,15136096 01.	446624529E 01,	5.9659259E 01.	DATA 528
944 573	5,0486229E 01. 5.2784640E 01.	5.8035651E 01,	5.4510566E 011	DATA 529
945 574 844	5,6258414E 01. 5:6296762E 01.	5,66090925 01,	3.8149775E 011	DATA 530
946 575 947 976	5.78547198 01, 5.8653933E 01; 6.1031215E 01, 6.1691329E 01;	5.9482422E 01, 6,2257332E 01,	6.9287367E 01, 6.9103470E 01,	DATA 531
	6,3388655E Q1, 6,3582856E Q1;	6,36816506 01,	6.\$675881E 01,	DATA 532 DATA 533
549 578	6.3552763E 08, 6,3298147E 01;	6.28997516 01.	6.2351169E 01,	DATA 534
	6.1655579E 01, 6.0829828E 01,	5. 9907262E 01.	5.8939074E 01/	DATA 535
	A (RMOCH 41) 1 # 73(108)/			DATA 536 6
552 581 553 582	5.7992906E 01, 5.7147622E 01, 5.5064246E 01, 5.6164595E 01,	5+6485037E 01.	5.6075086E 01.	DATA 537
954 563	5,8242736E 01, 5,9191684E 01;	5+8651451E 01:	5.7369134E 01, 6.1030894E 01,	DATA 538
955 584	6.1815781E 01, 6.2469887E 01,	6.2981355E Q1,	6.83502045 01,	DATA 540
556 585	6,3584161E 01, 6,3694613E 01;	648693005E C1.	6.3588215E 01.	VATA 541
557 586	6,3385084E 01, 6:3084176E 01,	6,2682863E 01,	6.2177750E 01.	DATA 542
558 587 559 588	6.1568056E 01, 6.0859530E 01,	660068399E 01,	5.9324729E 01.	DATA 543
	5.6188503E 01, 5.7576521E 01; 5.6188503E 01, 5.6244653E 01;	518901499E 01.	5.7196448E 01/	DATA 544
	A (RMOON 61) . 1 \$ 189 ; 144 1/	SEAS-ALLE NOT	516754440 011	DATA 546 6
562 591	5,80028496 01, 5,8934273E 01;	5,9910201E 01,	6.9855987E 01,	DATA 547
\$63 592	6,17101128 01, 6.24278760 014	6-2982127E 01,	6.8361910E 01.	DATA 540
964 593 965 594	6.3369836E 01, 6.3618697E 01,	6+35277578 01,	6.8319083E 01,	DATA 549
	6.3014310E 01a 6.2632078E 01; 6.1138642E 03: 6.0546843E 01;	5,7918483E 01,	5.9266933E 01	DATA 550 DATA 551
967 596	5.8615133E 01. 5.7997380E 01.	5.74584716 01.	5.7049604E 01,	DATA 552
568 597	5.6820903E 01, 5.6812301E 01;	5. F043487E 01,	5. \$509604E 01,	DATA 553
969 598	5.8175008E 01, 5.8987997E 01.	5.98792816 01,	6.0776681E 01.	DATA 554
	6.1412805E 01, 6.2331412E 01; A (RMOON (1), [+145]180,/	6,28911855 01,	6.4267200E 01/	
771 DAT	6,34506526 01, 6,3447349E 01,	6.\$275308E 01.	6.2961689E 01,	DATA 556 6
<b>973</b> 602	6.25392598 01, 6,2042648E 01,	6.1504697E 01.	6.9953411E 01,	DATA 558
	6.0410031E 01, 5.9888639E 01;	5,9397478E Q1.	5.8941717E Q1.	DATA 559
775 604	5,8827074E 01, 5,8163342E 01	5.7866755E 01.	5.7660216= 01.	DATA 560
976 603 977 606	5,7870859E 01, 5,7625096E 01, 5,8770476E 01, 5,9439927E 01,	5.7842156E 01, 6.0190573E 01,	5.8227865E 012	DATA 561
978 607	6,1708940E 01, 6,2361290E 01;	6-2875948E 01,	6.8966649E 01, 6.8217371E 01,	DATA 563
<b>979</b> 608	6,3464482E 01, 6,3311622E 01;	6.3068351E 01.	6.2658221E 01,	DATA 564
580 699	6.2116538E 01, 6.1487122E 01,	6408181345 01,	6.8157235E 01/	DATA 565
981 DAT 982 611	A (RMOON 11) 11+181,216)/	E. 85041775 04	E 82004545 Ac	DATA 566 6
983 612	5,93466266 01, 5,9018839E 01, 5,8075241E 01, 5,7969913E 01,	5,8594172E 01. 5,7954423E 01.	5.8280451E 01; 5.8021422E 01;	DATA 568
984 613	5,8168509E 01, 5,8398055E 01;	5.8714705E 41		DATA 569
585 614	5,9414943E 01, 6,0182817E 01,	6-0801460F 01.	6.1437078E 014	
986 615	6,2048340E 01, 6,2590442E 01,	6.30196888 01,	6.3297907E 01.	DATA 571
587 616 588 617	6.3396262E 01. 6.3298237E 01. 6.1882433E 01. 6.1131871E 01.	6,3001725E 01,	6.2520136E 011	DATA 572
	6.1882433E 01. 6.1131871E 01. 5,8778894E 01. 5.8161181E 01.	5.7706724E 01.		DATA 573 DATA 574
500 619	5.7357735E 01, 5.7448836E 01,	5,76826328 01,	5.8024982E 01/	DATA 575
991 DAY	A [#MOON (1):1#217,252)/			DATA 576 6
	5,84433362 01, 5,8911370E 01,	5,9410784E 01,	5.9930418E 01,	DATA 577
	6.0463429E 01, 6.1003586E 01,	6,15417498 01,	6.2063335E 01:	DATA 578
	6.2547303E 01, 6.2966769E 01; 6.3531112E 01, 6.3396301E 01;	6,82910318 01,	6.8488676E 011	DATA 579
596 625	6.1876825E 01, 6.1035379E 01,	6401457818 01,	6.2560249E 01, 5.9212079E 01,	DATA 580 DATA 581
997 626	5.8327528E 01, 5.7566752E 01,	5,6995755E 01,	5.4661641E 01.	DATA 582
998 627	5,6\$84905E 01, 5,6756886E 01,	5. 71434255 01.	5.1693897E 01,	DATA 583
366 958	5.8349263E 01, 5.9056548E 01,	5.97703218 01.		DATA 584

600	629	6.1099513E 01,	6,1683737E 01	6, 42057166 01,	6.3662307E 01	/ BATA 585	
601 602	DA		253,2881/			DATA 586	6
	631	0,3048943E 01,	6,3357298E 01,	6 3574363E 01,	6.5682967E 01		
603	632	6.3463561E 01,	6,34969525 01		6.2668835E Q1	The second secon	
604	633	6.20024378 01,	6.1188559E 01		5.9276887E 01		
603	634	5.8801523E 01.	5.7415908# 014		5.6227826E 01	The second secon	
06	635	5.60428418 01,	5.6160622E 01		5.7191416E 01		
607	626	5,79844596 01,	5.8864535E 01	5.9762193E 01.	6.3620803E G1	The second secon	
808	637	6,13997775 01.	6,2074405E 01		6.6074800E 01		
09	638	0.3402705F 01.	6,3622659E 01		6.8751846E 01		
410	639	6.3457995E 01,	6.3449760E 01	6-\$117624E 01,	6.2653097E 01		
11	DA'	TA (RMOON \$1) + I t	289,3241/			DATA 596	6
	641	6.20525908 01,	6,1321527E 01,	6,0478184E 01,	5.9556723E 01		
613	642	-,8403549E 01.	5,7750837E 01		5.6316054E G1		
614	643	5.50677988 01.	5:5961590E 01		5.6811849E 01		
615	644	3.7897108E 01.	5,4525333E 01/		6.8484835E 01		
16	645	6.1877205E 01.	6:2147427E 01		6.8230011# 01		
17	646	6.3933752E 01.	6.3690502E 01		6.8626091E 01		
15	647	6.34360678 01.	6:3156174E 01		6.2344743E 01		
619	648	6,1813658E 04.	6,1199142E 01		5.9751388E 01		
950	649	5.896204PE 01:	5,6179858E 01		5.6871616E 01		
121 122	DA'		32513601/			DATA 606	6
	651	5. 475461E 01.	5,6326531E Q1,	5,0455431E 01.	5.6861822E 01		
623	652	5.7512944E 01.	5,8349189E 01		6.8268783E 01		
124	653	6,1197227E 01.	6:2018342F 01		6.8177352F 01		
825	654	0,34785188 01,	6,3595744E 01		6.8352692E 01		
\$26	655	6.30458215 01,	6:2654082E 01		6.1714485 01		
427	656	6.12009325 01;	6.0670698E 01		3.9576412E 01		
628	65?	5.90240412 01.	5.3486391E 01.		5.2568613E 01		
129	658	5.72671578 01.	5.7128029E 01		5.8459545E 01		
530	659	5,79433208 01,	5.8608033E 01		6.9264816E 01		
631	DA	TA (RMOON (I) . I .	361:3681/			DATA 616	6
932	661	6,1122043E 01,	6,1910136E 014	6-25721098 01/	6.8065495F at		
433	662	6.1122043E 01, 6.3364086E 01,	6:19:0136E 01:		6.8065495E 01 6.8075714E 01	/ DATA 618	
634	EN	D			T. MAYEL WALL AT	DATA 619	6

71084 02 11-03-72 11:848	1980 ERHEMERIS	
PREFACE		
PREGRAM BREAK 4273		
COMBON LENGTH 0		
V GOUNT BITS 5		
PRIMARY SYMDEF ENTRY		
TABLE 0		
SECONDARY SYMDER ENTRY		
BLOCK LENGTH	46-46-4	
1 ERHBLM 11		
SYMREF		
END OF BINARY CARD #1980#19		

END OF BIMARY CARD \*1980\*19

4273 IS THE NEXT AVAILABLE LOCATION.

GMAP VORSION/ASSEMBLY DATES "JMPA 110171/102971 JMPB 110171/802971 JMPC 110171/102971

THERE HERE NO HARNING FLAGS IN THE ABOVE ASSEMBLY.

+\* 19411 HERDS OF MEMORY HERE USED BY GMAP FOR THIS ASSEMBLY.

		66663	6	9.6	46	9.0	6.0		9.6		
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		0	999	90	9.6		9.0		0		